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Ontario Geological Survey
Open File Report 6170

Sampling Lamprophyre Dikes for Diamonds: Discover Abitibi Initiative

2005

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ONTARIO GEOLOGICAL SURVEY

Open File Report 6170

Sampling Lamprophyre Dikes for Diamonds: Discover Abitibi Initiative

by

G.P.B. Grabowski and A.C. Wilson

2005

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Discover Abitibi
Découvrons l'Abitibi

Discover Abitibi

A project of innovation, cooperation and revitalization

Découvrons l' Abitibi

Un projet d' innovation, de coopération et de renouvellement

Discover Abitibi Initiative
The Discover Abitibi Initiative is a regional, cluster economic development project based on geoscientific investigations of the western Abitibi greenstone belt. The initiative, centred on the Kirkland Lake and Timmins mining camps, will complete 19 projects developed and directed by the local stakeholders. FedNor, Northern Ontario Heritage Fund Corporation, municipalities and private sector investors have provided the funding for the initiative.

Initiative Découvrons l'Abitibi
L'initiative Découvrons l'Abitibi est un project de développment économique régional dans une grappe d'industries, projet fondé sur des études géoscientifiques de la ceinture de roches vertes de l'Abitibi occidental. Cette initiative, centrée sur les zones minières de Kirkland Lake et de Timmins, mènera à bien 19 projets élaborés et dirigés par des intervenants locaux. FedNor, la Société de gestion du Fonds du patrimoine du Nord de l'Ontario, municipalités et des investisseurs du secteur privé ont fourni les fonds de cette initiative.

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Abstract

The Discover Abitibi Initiative is funded by the private sector, and the federal and provincial governments (respectively, Industry Canada through FedNor and the Ontario Ministry of Northern Development and Mines through the Northern Ontario Heritage Fund). The program is designed to stimulate mineral exploration in the Ontario portion of the Abitibi greenstone belt. A project to sample lamprophyre dikes in the Kirkland Lake–Cobalt area was approved by the Discover Abitibi Initiative.

Forty-five samples were submitted for lithogeochemical analysis and diamond extraction, selection and description to SGS Lakefield Research Ltd. in Lakefield, Ontario.

Six of the 45 samples submitted returned diamonds. Samples GGDA0402 and GGDA0432 each returned 1 microdiamond. Samples GGDA0433, GGDA0435 and GGDA0441 returned 5, 3 and 23 microdiamonds, respectively. Sample GGDA0410 contained one 0.011 carat (2.214 mg) macrodiamond.

Sampling Lamprophyre Dikes for Diamonds: Discover Abitibi Initiative

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Ontario Geological Survey
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Introduction

The Abitibi region of northeastern Ontario is home to many active mining companies that employ a large, highly trained workforce, which is the mainstay of communities such as Timmins and Kirkland Lake. Recent mine closures have reaffirmed the transient nature of mining operations and the need for heightened exploration in the region. The Discover Abitibi Initiative is a $12 million project funded by the federal and provincial governments (respectively Industry Canada through FedNor and the Ontario Ministry of Northern Development and Mines through the Northern Ontario Heritage Fund), municipal governments, and the private sector. The program is designed to stimulate mineral exploration in the Ontario portion of the Abitibi greenstone belt. A project to sample lamprophyre dikes to test for diamonds, in the Kirkland Lake–Cobalt area, was approved by the Discover Abitibi program.

The occurrence of diamond-bearing kimberlite pipes in the Lake Timiskaming structural zone (LTSZ) in the Kirkland Lake–New Liskeard area is well documented and was most recently summarized by R.P. Sage in 1996 (OGS Open File Report 5937) and 2000 (OGS Open File Report 6018).

Prior to 1970, diamond exploration concentrated entirely on kimberlite, since production in South Africa came solely from those pipes. During the 1970s, diamonds were discovered in lamproitic rocks in Australia. In 1996, diamonds were reported in lamprophyre dikes in the Wawa area. Sage (2000b, p.1) describes the details of the discovery. More than 36 locations in the Wawa area have returned diamonds hosted within a sequence of unusual, Archean lamprophyre and heterolithic breccias (Wilson 2004). Photos 1 to 5 illustrate typical examples.

Since 2000, the senior author has submitted more than 250 samples from approximately 70 lamprophyre dikes in the Kirkland Lake–Cobalt area to the Ontario Geoscience Laboratories (GeoLabs) in Sudbury for whole rock and trace element analysis. Preliminary observations from these results showed a chemical similarity between Wawa area lamprophyre and most Kirkland Lake–Cobalt area lamprophyre. Based on both the visual and chemical similarities, a *Recommendation for Exploration*, suggesting that Kirkland Lake–Cobalt area lamprophyre be tested for diamonds, was published in the 2000 *Report of Activities* (Meyer et al. 2001).

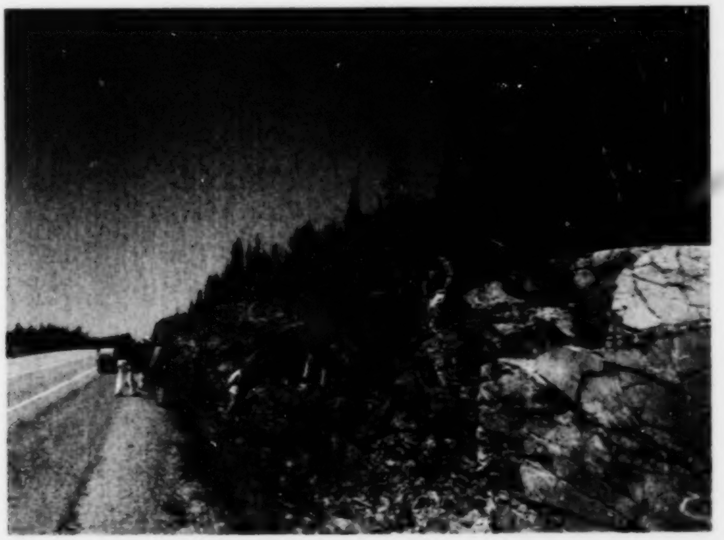


Photo 1. Spider Resources Inc. Sandor diamond occurrence, Highway 17.

Subsequently, in part based on this recommendation, in 2001 and 2002, diamonds were recovered from lamprophyre dikes (Photo 6) and heterolithic breccia (Photo 7) in Lorrain Township, 15 km southwest of Cobalt.

Photo 2. Band-Ore Resources Ltd. GQ diamond discovery site, Wawa area.

Photo 3. Band-Ore Resources Ltd. Barnett Lake zone.

Discover Abitibi Lamprophyre Sampling Project

The Discover Abitibi lamprophyre project was approved in July 2004. Sample locations were selected to obtain a representative distribution of lamprophyre from the project area.

The samples were collected mainly from sites previously sampled by the senior author for lithogeochemical analysis. Larger dikes (>30 cm) and those with inclusions were selected since they were thought to have a higher probability of containing diamonds. In most cases, sample sites are located in road cuts adjacent to highways.

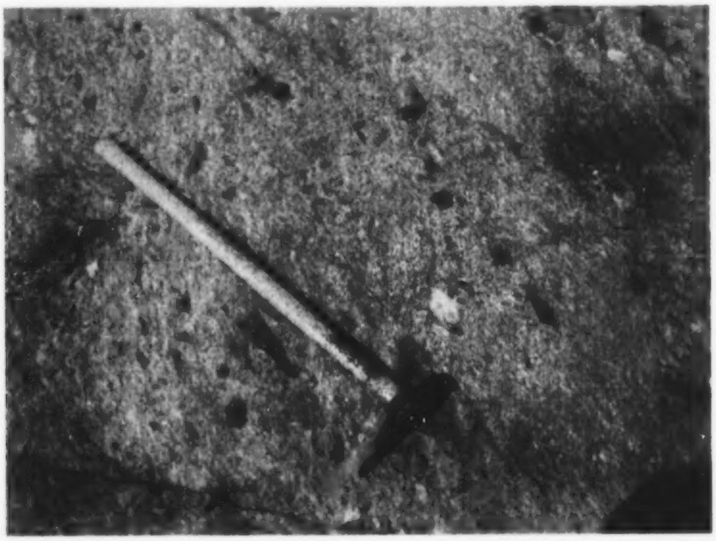


Photo 4. Band-Ore Resources Ltd. Engagement Zone.

Photo 5. Pele Mountain Resources Inc. Festival property, Moet occurrence.

Samples were collected using a sledge hammer (Photo 8), and where necessary, using a Pionjar® plugger drill (Photo 9).

The samples were sealed in bags and stored at the Kirkland Lake Drill Core Library in Swastika until ready for shipping. After all 45 samples were collected, approximately 25 kg from each sample were sealed in bags, and packed in plastic pails and shipped by bonded courier to SGS Lakefield Research Ltd. in Lakefield, Ontario. The forty-five 30 kg samples were submitted SGS Lakefield Research Ltd. for geochemical analysis and diamond extraction, selection and description. The results of these analyses are provided in Appendix 2.

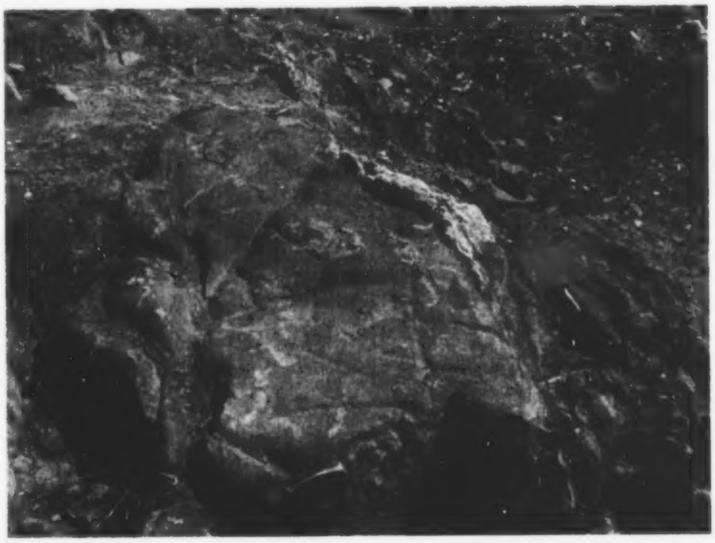


Photo 6. Lorrain Township diamond-bearing lamprophyre.

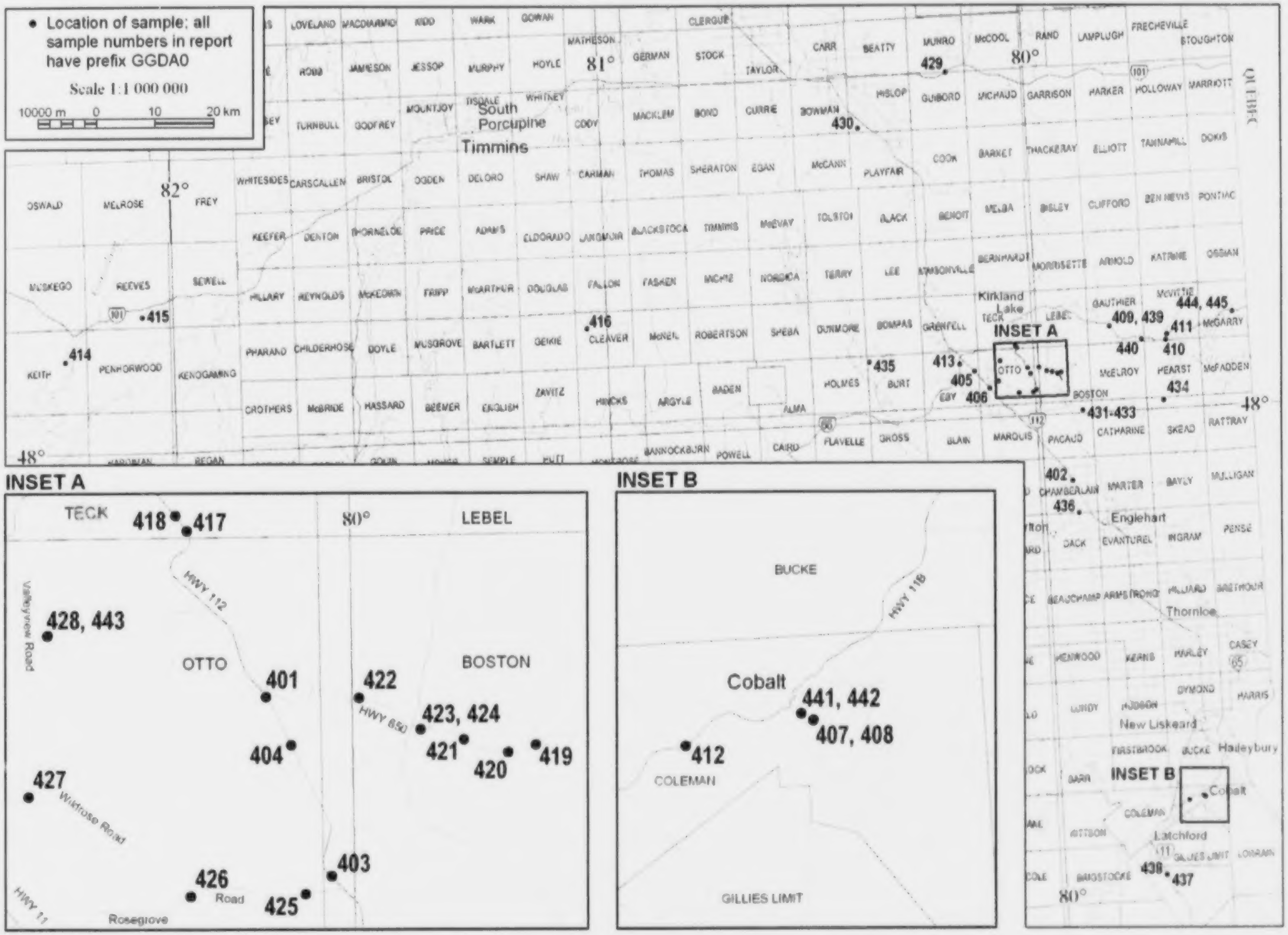
Photo 7. Cabo Mining Enterprises Inc. diamond-bearing heterolithic breccia.

SAMPLE LOCATIONS AND DESCRIPTIONS

Sample locations are shown in Figure 1. Table 1 lists Universal Transverse Mercator (UTM) co-ordinates for each sample location, using North American Datum 1983 (NAD83) in Zone 17. General descriptions of the lamprophyres can also be found in published geological reports.

Photo 8. Collecting sample GGDA0406 using a sledge hammer.

Photo 9. Collecting sample GGDA0429 using a Pionjar® plugger drill.


Location of sample; all sample numbers in report have prefix GGDA0
Scale 1:1 000 000
10000 m 0 10 20 km
QUEBEC
82°
81°
80°
48°
South Porcupine
Timmins
Kirkland Lake
Englehart
Thornloe
New Liskeard
Haileybury
Cobalt
Latchford
INSET A
INSET B
LOVELAND
MACDIARMID
KIDD
WARK
GOWAN
MATHESON
CLERGUE
CARR
BEATTY
MUNRO
McCOOL
RAND
LAMPLUGH
FRECHEVILLE
STOUGHTON
ROBB
JAMIESON
JESSOP
MURPHY
HOYLE
GERMAN
STOCK
TAYLOR
HISLOP
GUIBORD
MICHAUD
GARRISON
HARKER
HOLLOWAY
MARRIOTT
TURNBULL
GODFREY
MOUNTJOY
TISDALE
WHITNEY
CODY
MACKLEM
BOND
CURRIE
BOWMAN
COOK
BARNET
THACKERAY
ELLIOTT
TANNAHILL
DOKIS
OSWALD
MELROSE
FREY
WHITESIDES
CARSCALLEN
BRISTOL
OGDEN
DELORO
SHAW
CARMAN
THOMAS
SHERATON
EGAN
McCANN
PLAYFAIR
BENOIT
MELBA
BISLEY
CLIFFORD
BEN NEVIS
PONTIAC
KEEFER
DENTON
THORNELOE
PRICE
ADAMS
ELDORADO
LANGMUIR
BLACKSTOCK
TIMMINS
McEVAY
TOLSTOI
BLACK
BERNHARDT
MORRISETTE
ARNOLD
KATRINE
OSSIAN
MUSKEGO
REEVES
SEWELL
HILLARY
REYNOLDS
McKEOWN
FRIPP
McARTHUR
DOUGLAS
FALLON
FASKEN
MICHIE
NORDICA
TERRY
LEE
GRENFELL
TECK
LEBEL
GAUTHIER
McVITTIE
McGARRY
KEITH
PENHORWOOD
KENOGAMING
PHARAND
CHILDERHOSE
DOYLE
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SEMPLE
BANNOCKBURN
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INGRAM
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BEAUCHAMP
ARMSTRONG
HILLIARD
BRETHOUR
HENWOOD
KERNS
HARLEY
CASEY
DYMOND
HARRIS
HUDSON
FIRSTBROOK
BUCKE
COLEMAN
GILLIES LIMIT
LORRAIN
BRIGSTOCKE
101
11
112
66
65
429
430
415
414
416
435
413
405
406
409, 439
440
444, 445
411
410
434
431-433
402
436
438
437
TECK
LEBEL
OTTO
BOSTON
80°
Valleyview Road
HWY 112
HWY 650
HWY 11
Wildrose Road
Road
Rosegrove
418
417
428, 443
401
404
422
423, 424
421
420
419
427
426
425
403
BUCKE
HWY 11B
Cobalt
441, 442
407, 408
412
COLEMAN
GILLIES LIMIT

Figure 1. Locations of the samples collected showing the townships.

Table 1. Sample locations.

Sample Number	Township	UTM Co-ordinates (NAD83, Zone 17)		Diamonds
		Easting (m)	Northing (m)	
GGDA0401	Otto	572046	5324651	0
GGDA0402	Chamberlain	579042	5304806	1
GGDA0403	Boston	573456	5320782	0
GGDA0404	Otto	572595	5323617	0
GGDA0405	Eby	562893	5324409	0
GGDA0406	Otto	565412	5321401	0
GGDA0407	Coleman	599570	5249365	0
GGDA0408	Coleman	599558	5249361	0
GGDA0409	Gauthier	586449	5331225	0
GGDA0410	McVittie	596060	5328516	1
GGDA0411	McVittie	596314	5329425	0
GGDA0412	Coleman	596804	5248929	0
GGDA0413	Eby	560397	5325700	0
GGDA0414	Keith	406251	5332507	0
GGDA0415	Reeves	419792	5339715	0
GGDA0416	Cleaver	496356	5334646	0
GGDA0417	Teck	570359	5328214	0
GGDA0418	Teck	570109	5328537	0
GGDA0419	Boston	577854	5323614	0
GGDA0420	Boston	577265	5323451	0
GGDA0421	Boston	576308	5323730	0
GGDA0422	Boston	574058	5324625	0
GGDA0423	Boston	575376	5323955	0
GGDA0424	Boston	575376	5323955	0
GGDA0425	Otto	572897	5320399	0
GGDA0426	Otto	570434	5320350	0
GGDA0427	Otto	566960	5322495	0
GGDA0428	Otto	567353	5325960	0
GGDA0429	Guibord	560015	5376336	0
GGDA0430	Hislop	544378	5367309	0
GGDA0431	Pacaud	581263	5316900	0
GGDA0432	Pacaud	581267	5316902	1
GGDA0433	Pacaud	581273	5316904	5
GGDA0434	Skead	595331	5318143	0
GGDA0435	Burt	544729	5326717	3
GGDA0436	Dack	579920	5299201	0
GGDA0437	Gillies Limit	592420	5235981	0
GGDA0438	Gillies Limit	592352	5236118	0
GGDA0439	Gauthier	586452	5331205	0
GGDA0440	Gauthier	591917	5328774	0
GGDA0441	Coleman	599310	5249515	23
GGDA0442	Coleman	599310	5249515	0
GGDA0443	Otto	567365	5325970	0
GGDA0444	McGarry	607660	5332939	0
GGDA0445	McGarry	607665	5332949	0

GGDA0401

This sample, shown in Photo 10, is from the east side of Highway 112 in Otto Township, about 500 m south of the intersection with Highway 650 (Adams Mine Road). It is from the widest of more than 20 phlogopite-amphibole lamprophyre dikes cutting coarse-grained to pegmatitic syenite of the Otto stock (Pigeon and Berger 2004).

Photo 10. GGDA0401, Otto Township.

GGDA0402

This sample, shown in Photo 11, is from the west side of Highway 11 in Chamberlain Township, 8.4 km north of Englehart (intersection of Highways 11 and 560). It is from a xenolith-bearing biotite-rich lamprophyre dike in granitic rocks of the Round Lake batholith.

Photo 11. GGDA0402, Chamberlain Township.

GGDA0403

This sample, shown in Photo 12, is from the east side of Highway 112 in Boston Township, 11.7 km north of Highway 66 and 200 m north of Rosegrove Road. It is from a xenolith- and ultramafic nodule-bearing mica-rich lamprophyre dike cutting the syenite of the Otto stock (Lawton 1959).

Photo 12. GGDA0403, Boston Township.

GGDA0404

This sample, shown in Photo 13, is from the east side of Highway 112 in Otto Township, about 1.5 km south of Highway 650 (Adams Mine Road). It is from a phlogopite-amphibole lamprophyre dike cutting coarse-grained to pegmatitic syenite of the Otto stock (Pigeon and Berger 2004).

Photo 13. GGDA0404, Otto Township.

GGDA0405

This sample, shown in Photo 14, is from the east side of Highway 11 in Eby Township, about 3.5 km south of the intersection with Highway 66 at Kenogami. It is from a mica- and amphibole-rich breccia cutting intermediate to mafic metavolcanic rocks (Pigeon and Berger 2004).

Photo 14. GGDA0405, Eby Township.

GGDA0406

This sample (location shown in Photos 8 and 15) is from the east side of Highway 11 in Otto Township at the Toggenberg Trail road, 7.5 km south of the intersection with Highway 66 at Kenogami. It is from an outcrop of mica-bearing gabbro to melagabbro, hornblendite, pyroxenite and alkalic gabbro to diorite (Pigeon and Berger 2004).

Photo 15. GGDA0406, Otto Township.

GGDA0407 and GGDA0408

These samples are from 2 distinct dikes from the Nipissing Hill lookout (Stop #7 on Cobalt's Heritage Silver Trail) road in Coleman Township. Sample GGDA0407, shown in Photo 16, is a biotite-rich lamprophyre dike cutting "Keewatin" pillowed basalts and interflow sediments, whereas GGDA0408 is a breccia dike that intrudes the lamprophyre, as described by MacRobbie (1986).

Photo 16. GGDA0407 (from breccia to the right of the sledge hammer) and GGDA0408, Coleman Township.

GGDA0409

This sample, shown in Photo 17, is from the north side of Highway 66 in Gauthier Township, about 1 km east of the intersection with the Dobie Road. It is a 2.5 m wide xenolith-bearing biotite-rich lamprophyre dike cutting pillowed mafic metavolcanic rocks (Thomson and Griffis 1944). Queenston Mining Inc.'s Anoki property decline ramp is approximately 300 m to the north.

Photo 17. GGDA0409, Gauthier Township.

GGDA0410

This sample, shown in Photo 18, is from the north side of Highway 66 in McVittie Township, 300 m east of the village of Larder Lake's municipal office. It is from a biotite-rich lamprophyre dike that cuts Timiskaming assemblage metasedimentary rocks (Thomson 1943). The dike appears to be about 1 m wide.

Photo 18. GGDA0410, McVittie Township.

GGDA0411

This sample, shown in Photo 19, is from the south side of Highway 66 in McVittie Township, about 400 m east of Larder Lake station road. It is from a 3 m wide biotite-rich lamprophyre dike cutting Timiskaming assemblage metasedimentary rocks (Thomson 1943).

Photo 19. GGDA0411, McVittie Township.

GGDA0412

This sample, shown in Photo 20, is from the north side of Highway 11B in Coleman Township, 1.8 km west of Coleman Road and 3.5 km east of the Highway 11 intersection. It is from a xenolith-bearing biotite-rich lamprophyre dike cutting "Keewatin" pillow basalt (Thomson 1964).

Photo 20. GGDA0412, Coleman Township.

GGDA0413

This sample, shown in Photo 21, is from the east side of Highway 66 in Eby Township, about 1.2 km south of the intersection with Highway 66 at Kenogami. It is a xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Pigeon and Berger 2004).

Photo 21. GGDA0413, Eby Township.

GGDA0414

This sample, shown in Photo 22, is from the Sangold (Hoodoo West Zone) property in Keith Township, about 12 km south of Highway 101. Access to the property is via the Horwood Lake Road to the Joburke Mine access road and then along a secondary bush access road. It is from a biotite-rich lamprophyre dike cutting carbonatized mafic metavolcanic rocks (Ayer 1995; Siragusa 1990).

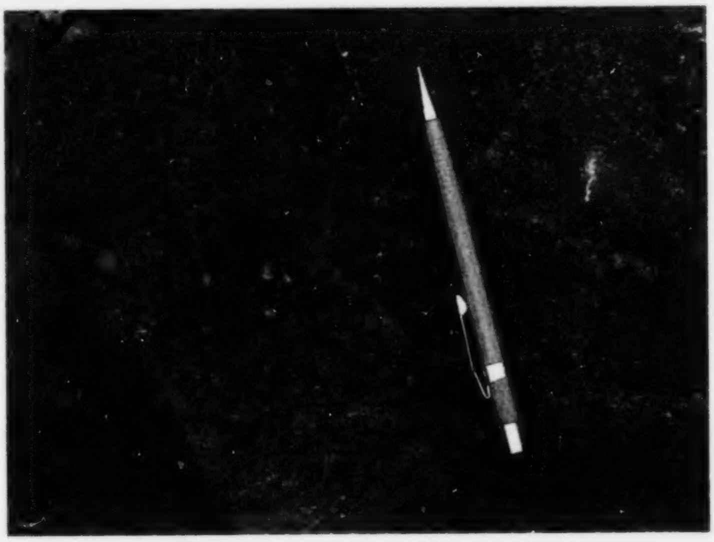

Photo 22. GGDA0414, Keith Township.

GGDA0415

This sample, shown in Photo 23, is from the east side of the abandoned open pit of the Reeves Mine in Reeves Township, about 2 km south of Highway 101. It is described by Milne (1972) as a biotitic amphibolite dike cutting the Reeves Mine ultramafic rocks.

Photo 23. GGDA0415, Reeves Township.

GGDA0416

This sample, shown in Photo 24, is from the west side of Stringer Road in Cleaver Township, about 12 km south of Timmins. It is from a 1 m wide xenolith-bearing biotite lamprophyre dike cutting intermediate metavolcanic rocks (Jensen 2002).

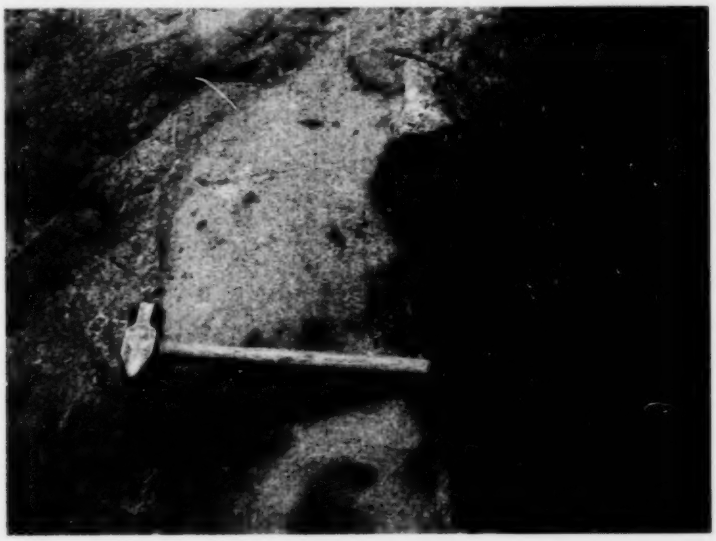

Photo 24. GGDA0416, Cleaver Township.

GGDA0417

This sample, shown in Photo 25, is from the east side of Highway 112 in Teck Township, about 3 km south of the intersection with Highway 66. It is from a 1 m wide coarse-grained biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Thomson 1950).

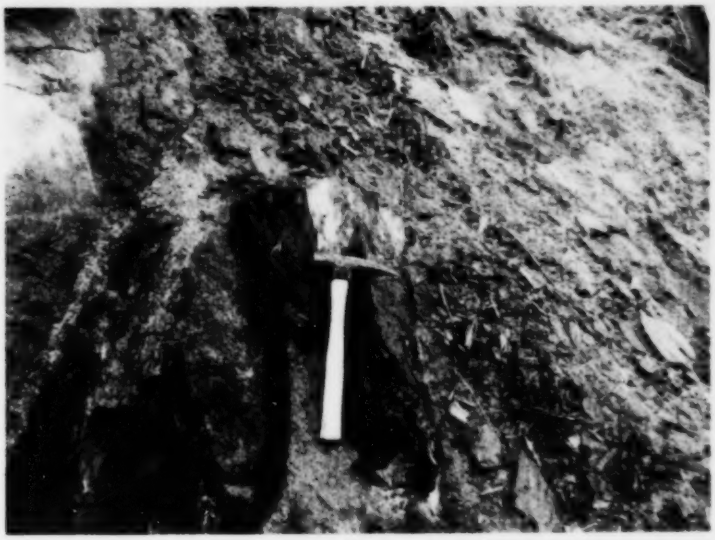

Photo 25. GGDA0417, Teck Township.

GGDA0418

This sample, shown in Photo 26, is from the east side of Highway 112 in Teck Township, about 2.6 km south of the intersection with Highway 66. It is from 2 parallel, 0.5 m wide biotite-rich lamprophyre dikes cutting mafic metavolcanic rocks (Thomson 1950).

Photo 26. GGDA0418, Teck Township.

GGDA0419

This sample, shown in Photo 27, is from the north side of Highway 650 (Adams Mine Road) in Boston Township, 6.5 km east of the intersection with Highway 112 at Dane. It is from a 3 m wide xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Lawton 1959).

Photo 27. GGDA0419, Boston Township.

GGDA0420

This sample, shown in Photo 28, is from the north side of Highway 650 (Adams Mine Road) in Boston Township, 5.9 km east of the intersection with Highway 112 at Dane. It is from a 1 m wide xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Lawton 1959).

Photo 28. GGDA0420, Boston Township.

GGDA0421

This sample, shown in Photo 29, is from the north side of Highway 650 (Adams Mine Road) in Boston Township, 5.5 km east of the intersection with Highway 112 at Dane. It is from a 2 m wide biotite-phyric lamprophyre dike cutting mafic metavolcanic rocks (Lawton 1959).

Photo 29. GGDA0421, Boston Township.

GGDA0422

This sample, shown in Photo 30, is from the north side of Highway 650 (Adams Mine Road) in Boston Township, 2.4 km east of the intersection with Highway 112 at Dane. It is from a 1 m wide xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Lawton 1959).

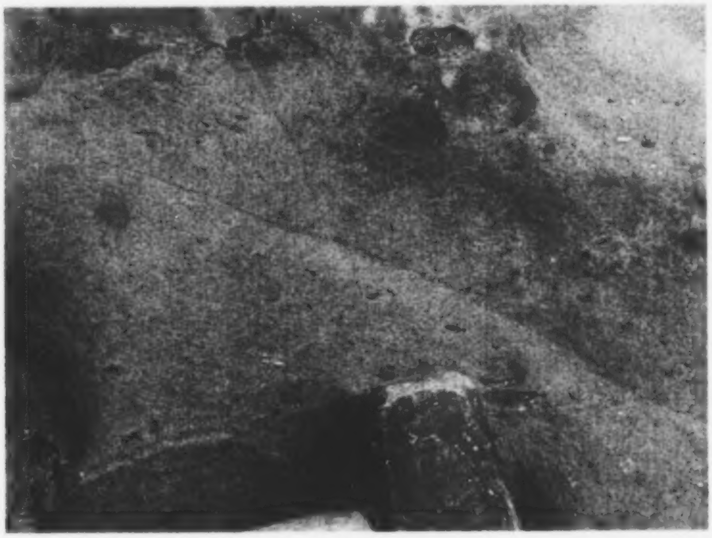

Photo 30. GGDA0422, Boston Township.

GGDA0423

This sample, shown in Photo 31, is from the north side of Highway 650 (Adams Mine Road) in Boston Township, 3.9 km east of the intersection with Highway 112 at Dane. It is from a 1 m wide xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Lawton 1959).

Photo 31. GGDA0423, Boston Township.

GGDA0424

This sample, shown in Photo 32, is from the south side of Highway 650 (Adams Mine Road) in Boston Township, 3.9 km east of the intersection with Highway 112 at Dane. It is from a 0.5 m wide xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Lawton 1959).

Photo 32. GGDA0424, Boston Township.

GGDA0425

This sample, shown in Photo 33, is from the north side of Rosegrove Road in lot 1, concession 2, Otto Township, 0.8 km west of the intersection with Highway 112. It is from a biotite-rich lamprophyre dike cutting "spotted" syenite of the Otto stock (Pigeon and Berger 2004).

http:// gsc.nrcan.gc.ca/bookstore/
http:// cgc.rncan.gc.ca/librairie/
Canada

Photo 33. GGDA0425, Otto Township.

GGDA0426

This sample, shown in Photo 34, is from the north side of Rosegrove Road in lot 4, concession 2, Otto Township, 3.5 km west of intersection with Highway 112. It is from a phlogopite-amphibole lamprophyre dike cutting "spotted" syenite and feldspar porphyry of the Otto stock (Pigeon and Berger 2004).

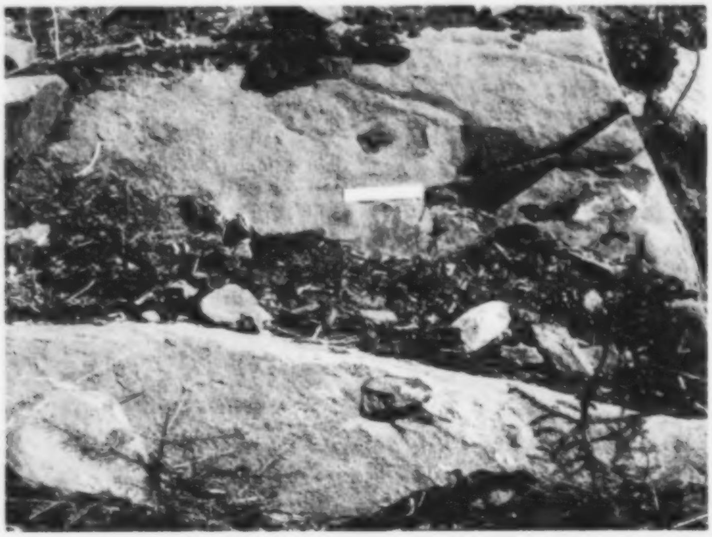

Photo 34. GGDA0426, Otto Township (for scale, the ruler is 21 cm long).

GGDA0427

This sample, shown in Photo 35, is from the south side of Wildrose Road 2 in lot 8, concession 3, Otto Township, 1.8 km east of intersection with Otto Road 1. It is a phlogopite-amphibole lamprophyre dike cutting quartz syenite and alkaline granite of the Otto stock (Pigeon and Berger 2004).

Photo 35. GGDA0427, Otto Township.

GGDA0428 and GGDA0443

These samples are from outcrops 780 m east of Valleyview Road in Otto Township, 1.6 km south of intersection with Otto Road 1. Sample GGDA0428, shown in Photo 36, is from a heterolithic breccia with crosscutting lamprophyre dikes as well as clasts of lamprophyre, similar to the Lorrain Township occurrence (*see* Photo 6) and described by Stott et al. (2002). About 30 m to the west, sample GGDA0443, shown in Photo 37, is from a 2 m wide xenolith-bearing biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Pigeon and Berger 2004).

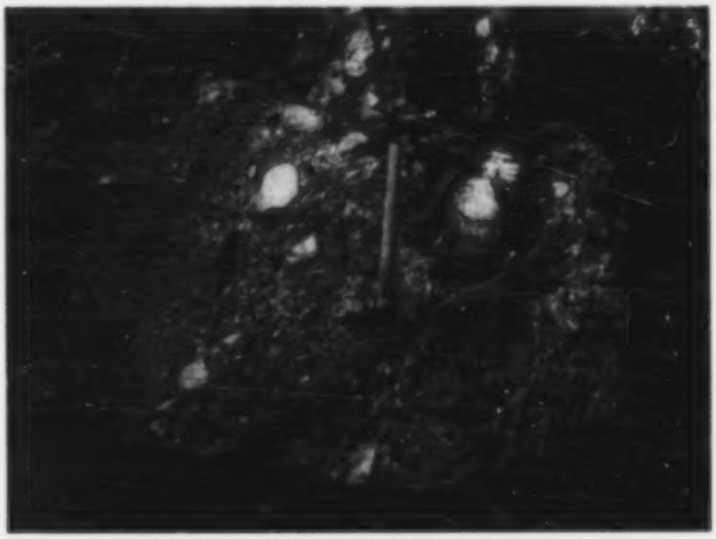

Photo 36. GGDA0428, Otto Township.

Photo 37. GGDA0443, Otto Township.

GGDA0429

This sample, shown in Photo 9, is from the south side of Highway 101 in Guibord Township, about 12 km east of the intersection with Highway 572. It is from a biotite-rich lamprophyre dike cutting ultramafic metavolcanic rocks (Prest 1953).

GGDA0430

This sample is from the waste rock pile at the Canadian Arrow Mine in southwest Hislop Township. The bedrock exposure has since flooded; however, the lamprophyre is hosted by a trondhjemitic stock, so samples were easy to locate. The lamprophyre was described by McNeil and Kerrich (1986, p.327) as being undeformed, panidiomorphic, and medium grained, and exhibited a decussate fabric. The dikes are thought to extend 1.5 km along strike to the Vimy Mine outcrop, which were described by Prest (1957, p.23-25).

GGDA0431, GGDA0432 and GGDA0433

These samples, shown in Photos 38 and 39, are from an outcrop approximately 800 m south of a gravel road (Highway 564) in lot 3 concession 6, Pacaud Township, approximately 3 km east of Boston Creek. Three contiguous biotite lamprophyre dikes over a 4 m wide area were sampled. Using crosscutting relationships, sample GGDA0431 is the oldest dike, whereas GGDA0433 is the youngest (Lawton 1959; Harrington, 2003).

GGDA0434

This sample is from an outcrop on the edge of an old pit, about 2 km north of Highway 624, in lot 3, concession 6, Skead Township, and about 12 km south of Larder Lake. It is from a biotite-rich lamprophyre dike cutting syenite (Hewitt 1951).

Photo 38. GGDA0431, GGDA0432 and GGDA0433 (left, right and centre, respectively), Pacaud Township.

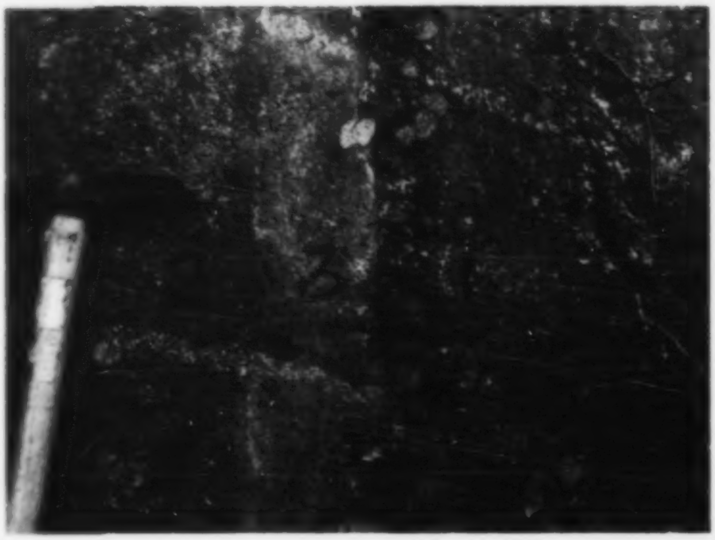

Photo 39. GGDA0431, GGDA0432 and GGDA0433 (right, left and centre, respectively), Pacaud Township.

GGDA0435

This sample, shown in Photo 40, is from the east side of Watabeag Road in Burt Township, about 12 km north of the intersection with Highway 66. It is from 40 cm wide mica and amphibole-bearing lamprophyre dike cutting intermediate metavolcanic rocks (Berger 2004).

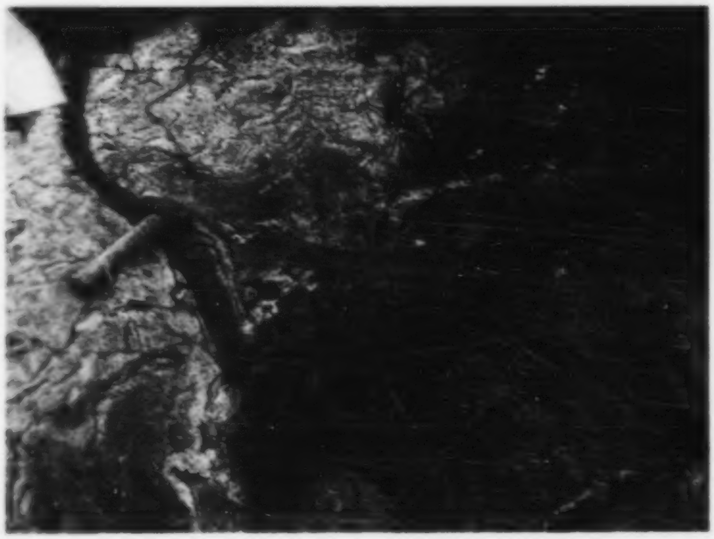

Photo 40. GGDA0435, Burt Township.

GGDA0436

This sample, shown in Photo 41, is from the east side of MacPherson Road in lot 5, concession 6, Dack Township, about 2 km north of the intersection with Highway 560. It is from a 2 m wide xenolith-bearing, biotite-rich lamprophyre dike cutting mafic metavolcanic rocks (Johns 1986).

Photo 41. GGDA0436, Dack Township.

GGDA0437

This sample, shown in Photo 42, is from the west side of Highway 11 in block 59, Gillies Limit Township, about 6 km south of the Sgt. Aubrey Cosens bridge on the Montreal River in Latchford. It is from a xenolith-bearing biotite-rich lamprophyre dike cutting granodiorite (Born and Hitch 1990).

Photo 42. GGDA0437, Gillies Limit Township.

GGDA0438

This sample, shown in Photo 43, is from the west side of Highway 11 in block 59, Gillies Limit Township, about 6 km south of the Sgt. Aubrey Cosens bridge on the Montreal River in Latchford. It is from a xenolith-bearing biotite-rich lamprophyre dike cutting granodiorite (Born and Hitch 1990).

Photo 43. GGDA0438, Gillies Limit Township.

GGDA0439

This sample, shown in Photo 44, is from the south side of Highway 66 in Gauthier Township, about 1 km east of the intersection with Upper Canada Road. It is a 1 m wide biotite-rich lamprophyre dike cutting pillowed mafic metavolcanic rocks. Queenston Mining Inc.'s Anoki property decline ramp is about 300 m to the north (Thomson and Griffis 1944).

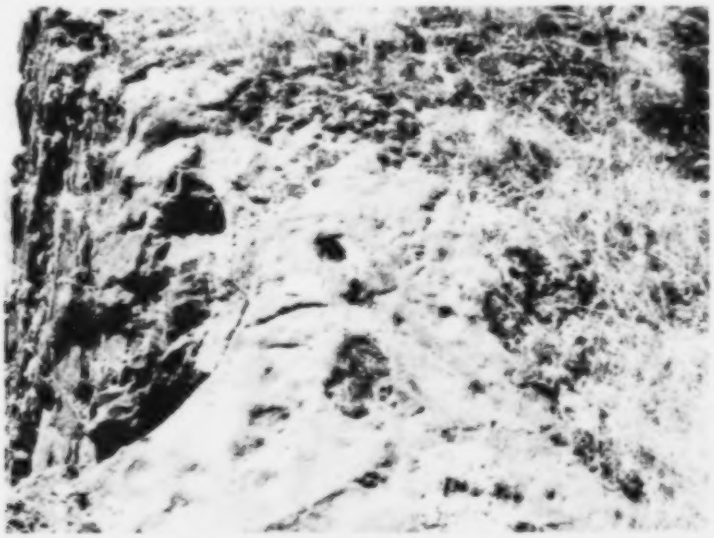

Photo 44. GGDA0439, Gauthier Township (for scale, the card is 8 cm long).

GGDA0440

This sample, shown in Photo 45, is from the south side of Highway 66 in Gauthier Township, about 200 m east of the Misema River bridge, 4 km west of Larder Lake. It is from a 20 cm wide fine-grained biotite-rich dike cutting highly sheared ultramafic metavolcanic rocks in the Larder Lake–Cadillac deformation zone (Thomson and Griffis 1944). The dike was shown to the author by H.A. Lee (Lee 1968), who speculated it may be a kimberlite. The Diamond Lake kimberlite occurs approximately 2 km to the north (McClenaghan et al. 1998).

1
3
5
7
CENTIMETRES

Photo 45. GGDA0440, Gauthier Township.

GGDA0441 and GGDA0442

These samples, shown in Photos 46 and 47, are from the Nipissing Mine property (Stop #8 on Cobalt's Heritage Silver Trail) on the south side of road in Coleman Township. They are xenolith-bearing biotite-rich lamprophyre dikes cutting "Keewatin" pillowed basalts and interflow sediments, as described by MacRobbie (1986).

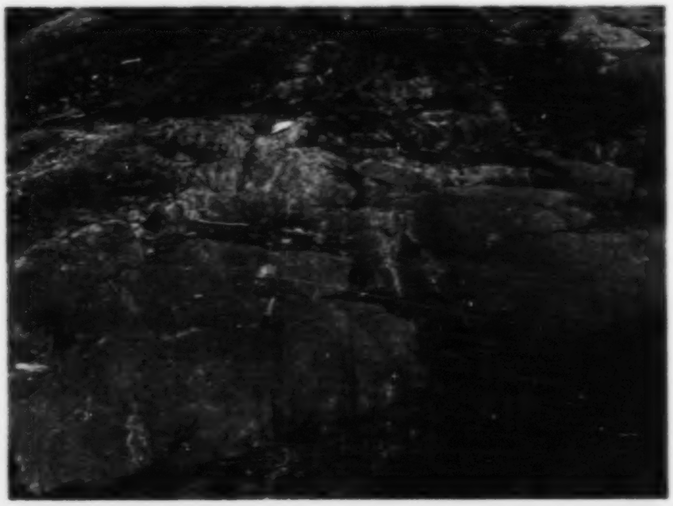

Photo 46. GGDA0441, Coleman Township.

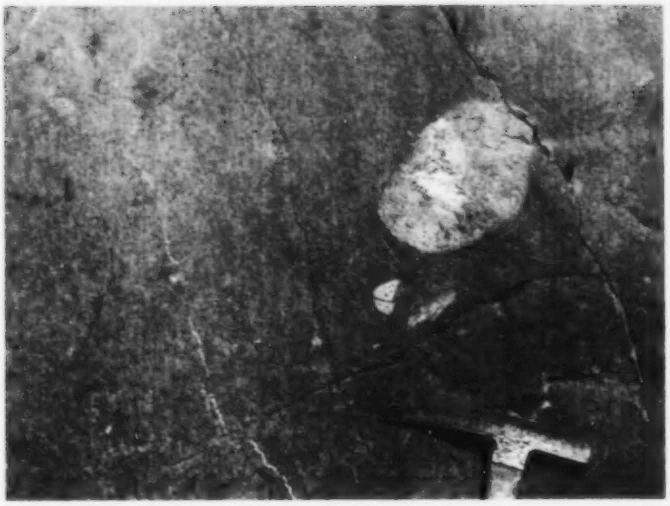

Photo 47. Close-up view of GGDA0441, Coleman Township.

GGDA0444

This sample is from crushed drill core rejects supplied by Cascadia International Resources Inc. from its 2003 drill program in McGarry Township (property held by Agrimar Ventures Inc.). It is from biotite lamprophyre within ultramafic metavolcanic rocks in drill hole number CPM 03-03 between 426 m and 580 m (Robinson 2003).

GGDA0445

This sample is from crushed drill core rejects supplied by Cascadia International Resources Inc. from its 2003 drill program in McGarry Township (property held by Agrimar Ventures Inc.). It is from massive altered lamprophyre interbedded with ultramafic metavolcanic rocks in drill hole number CPM 03-03 between 298 m and 310 m (Robinson 2003).

SAMPLE PROCESSING

A detailed description of the microdiamond extraction process, as well as a generalized processing flow sheet, provided by SGS Lakefield Research Ltd., is shown in Appendix B of Appendix 2.

RESULTS

All results are reported as a Certificate of Analysis in Appendix A of Appendix 2. The results of geochemical analyses are found in Appendix C of Appendix 2. Both were provided by SGS Lakefield Research Ltd., with permission granted by SGS Lakefield to reproduce their reports as Appendix 2 in this report.

The results were very encouraging. Six of the 45 samples submitted returned diamonds.

- Samples GGDA0402 and GGDA0432 each returned 1 microdiamond.
- Samples GGDA0433, GGDA0435 and GGDA0441 returned 5, 3 and 23 microdiamonds, respectively.
- Sample GGDA0410 contained one 0.011 carat (2.214 mg) macrodiamond.

Secondary electron (SE) images of 34 diamonds were acquired using the scanning electron microscope (SEM) in the GeoLabs. These images are provided as Appendix 1.

Conclusions and Recommendations

The intent of this project was to sample lamprophyre occurrences in the area of the Discover Abitibi Initiative to determine if any of the dikes in the Kirkland Lake–Cobalt area, like Wawa, are diamondiferous. Outcrop areas were not mapped in detail, and petrography and mineralogy were not completed. Williams (2002) provides detailed descriptions for some of the sample locations as the authors provided some samples for her BSc thesis.

The results of this project demonstrate that diamonds occur in the lamprophyric rock from the Kirkland Lake–Cobalt area.

- A 25 kg sample represents approximately 1 cubic foot of rock. Although every attempt was made to collect as representative a sample as possible from each exposure, the relatively small volume sampled may have easily missed a diamond. Therefore, sample locations that did not return a diamond should not be considered barren.
- Further study is needed to determine where the diamonds are located within the dikes. Most of the sampled dikes, which returned diamonds, contained xenoliths. Spider Resources Ltd. has recently postulated that the diamonds are found in the xenoliths on their Wawa property (Spider Resources Inc., press release, May 17, 2005, http://www.spiderresources.com/).
- A variety of rock types host lamprophyre dikes and breccia, including all types of metavolcanic and metasedimentary rocks, as well as felsic intrusive rocks that include granodiorite, granite and/or syenite. There is no apparent preference for those that contain diamonds.
- There are numerous lamprophyre locations that were not sampled in this project. Published Ontario Geological Survey (and its predecessors) can be used to locate these exposures.
- The Kirkland Lake–Cobalt area hosts more than 30 kimberlite pipes, over half of which are diamondiferous. There are many targets being tested for potential kimberlite. In May 2005, Tres-Or Resources Ltd. discovered a kimberlite pipe on its Temagami North property, Lapointe 1 target, located 16 km northwest of sample GGDA0402.

Acknowledgments

The author wishes to thank the Discover Abitibi Initiative for approving this project. A special thanks to Ann Wilson, District Geologist in South Porcupine, who provided field trips to Wawa as well as selecting and helping collect samples in the Timmins area. Dave Guindon, Kirkland Lake District Geologist, and Eric Chaloux, Kirkland Lake District Support Geologist, also assisted in collecting samples in the Kirkland Lake and Cobalt areas. Dave Crabtree from the OGS Geoscience Laboratories in Sudbury provided the SE images. Thanks also to prospectors Gerry Bastarache, Bill Flinsky, Marty Harrington and Eric Marion for helping to collect samples from their claims. Kirkland Lake Minerals Inc. provided access to their property. Cascadia International Resources Inc. provided drill core samples from their McGarry Township property. Critical review by John Ayer and Monica Easton's editing skills significantly improved this report.

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Appendix 1

Mineralogy Report: Scanning Electron Images of Diamonds

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GEO LABS
GEOSCIENCE LABORATORIES

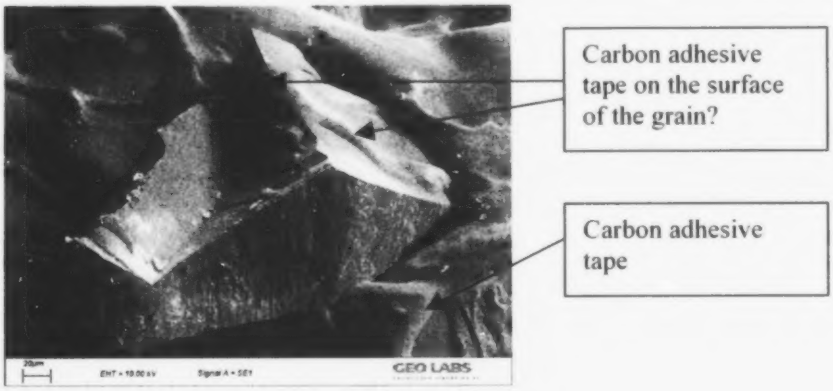
Geoscience Laboratories
Willet Green Miller Centre
933 Ramsey Lake Road
Sudbury, ON P3E 6B5
phone (705) 670-5634
FAX: (705) 670 3047

Mineralogy Report

GL Job Number: 05-0188
Test Group: SEM-101
Date: July 28, 2005

The attached secondary electron (SE) images of 34 diamonds were acquired using the scanning electron microscope (SEM). Since there may be a need in the future to photograph these grains using traditional light microscopy methods, the grains were not given a conductive coating. As a result, the quality of some of the images is compromised by sample charging. If higher magnification images are required to observe fine surface features or to obtain improved contrast then I would recommend that you identify any grains that can be coated with Au prior to examination.

Due to the small size of some of the diamonds it was difficult to place them on the adhesive carbon tape that is used to hold the grains to the sample stub. In some cases the grains may have "rolled" in the carbon tape during placement with the result that some images have what appear to be remnants of carbon tape on the top surface of the grain. It is something that you need to be aware of when considering surface morphology. An example of this problem is shown here for grain GGDA0433-1



Carbon adhesive tape on the surface of the grain?

Carbon adhesive tape

Dave Crabtree
Electron Microprobe Scientist
Geoscience Laboratories

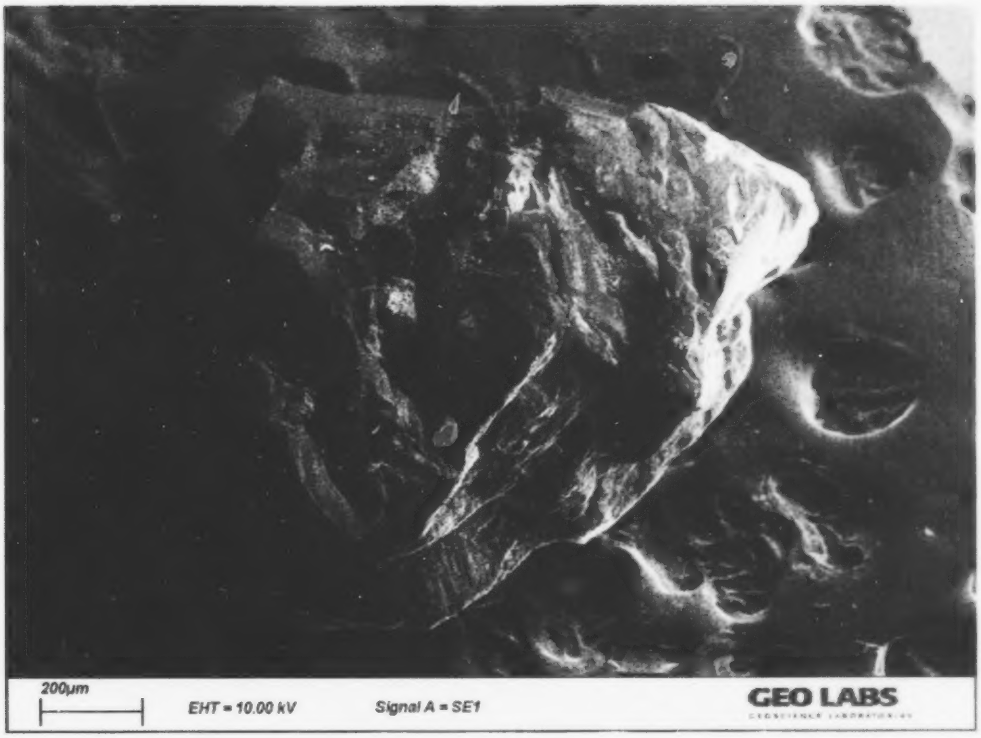

200µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-1. Grain GGDA0410-1

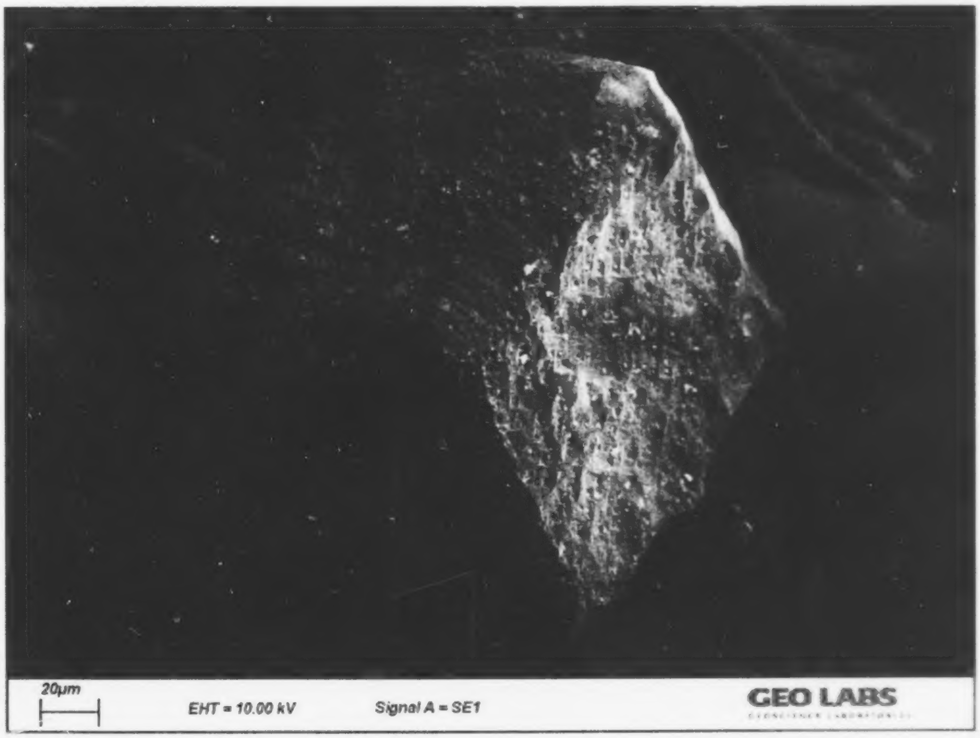

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-2. Grain GGDA0402-1

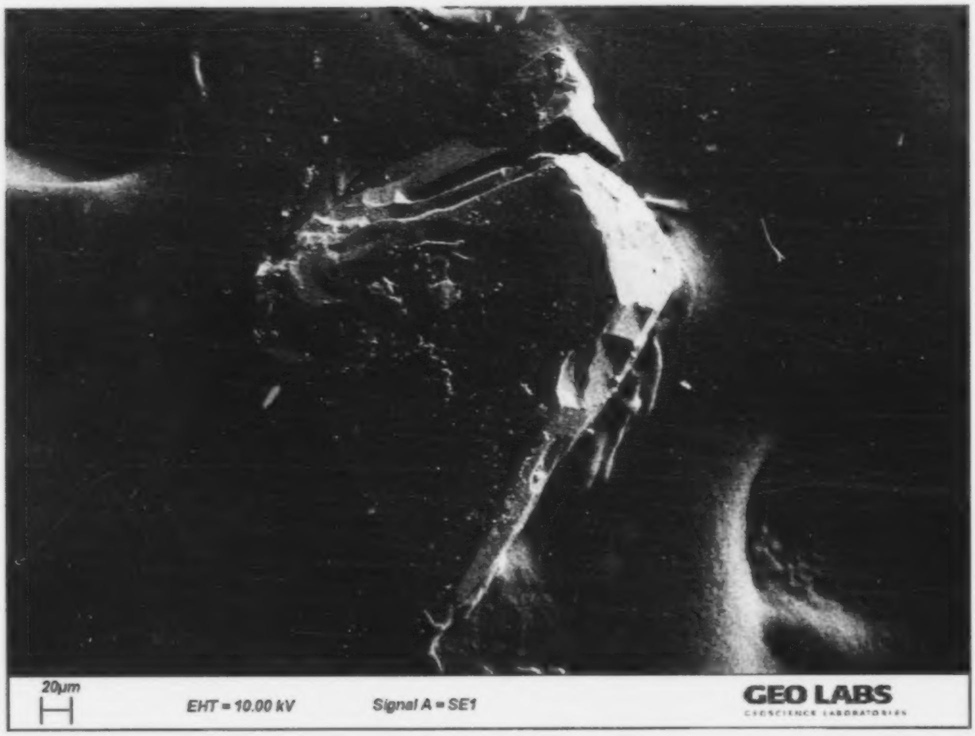

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-3. Grain GGDA0432-1

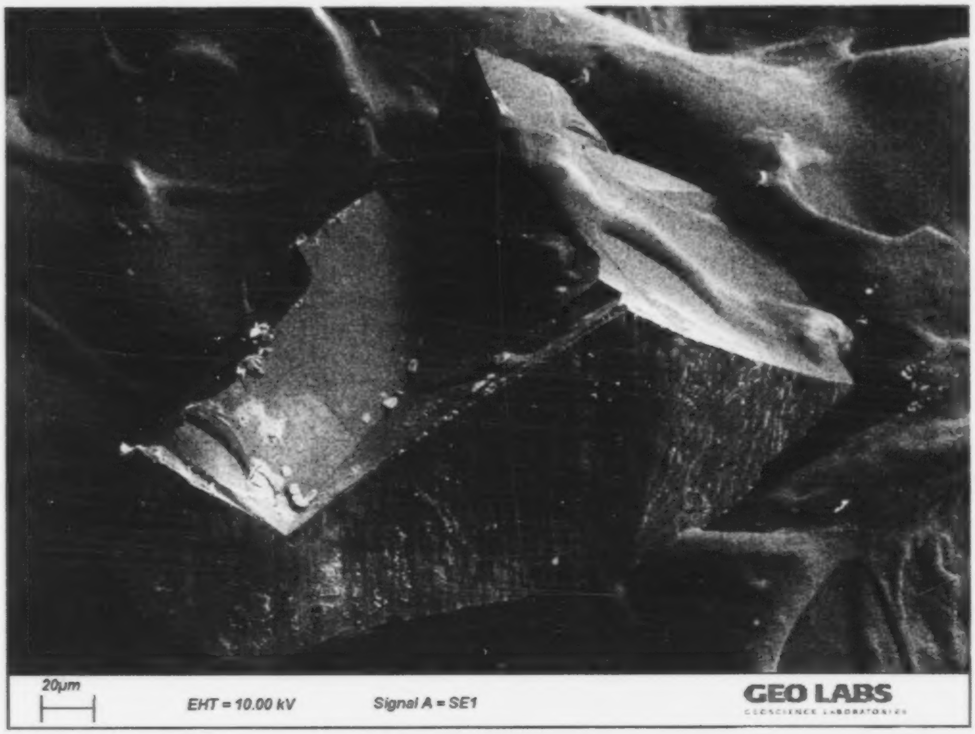

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-4. Grain GGDA0433-1

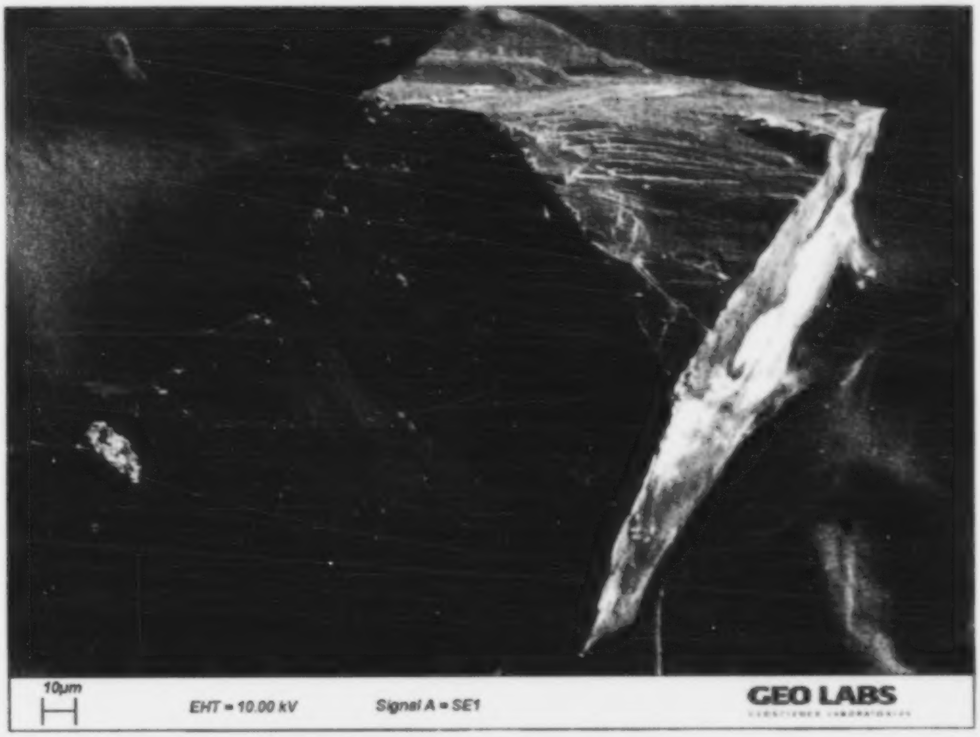

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-5. Grain GGDA0433-2

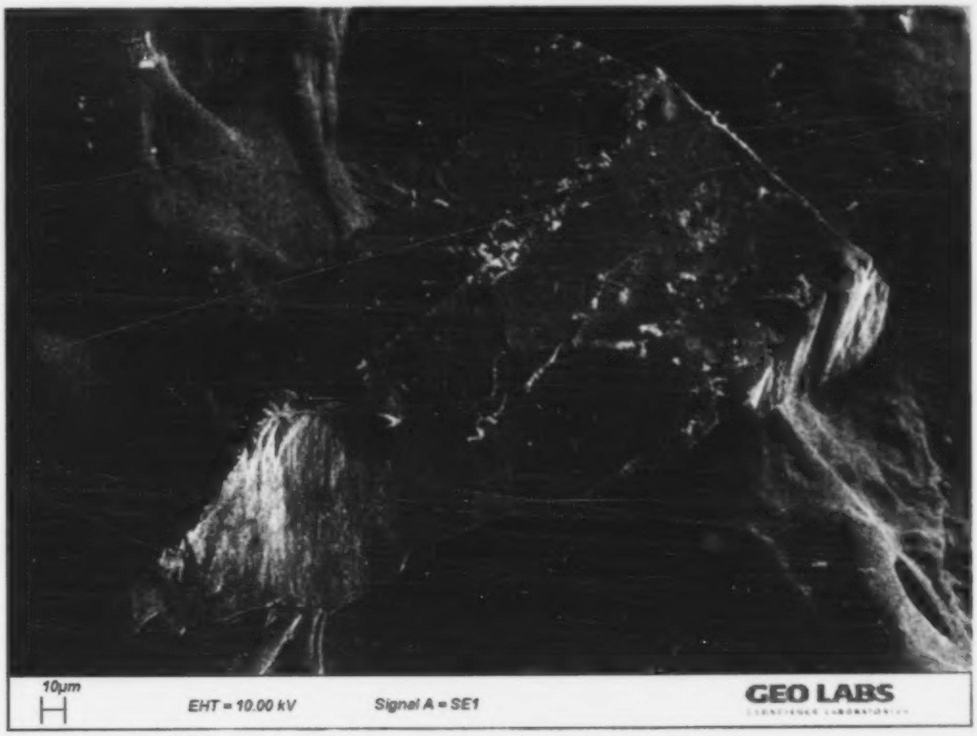

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-6. Grain GGDA0433-3

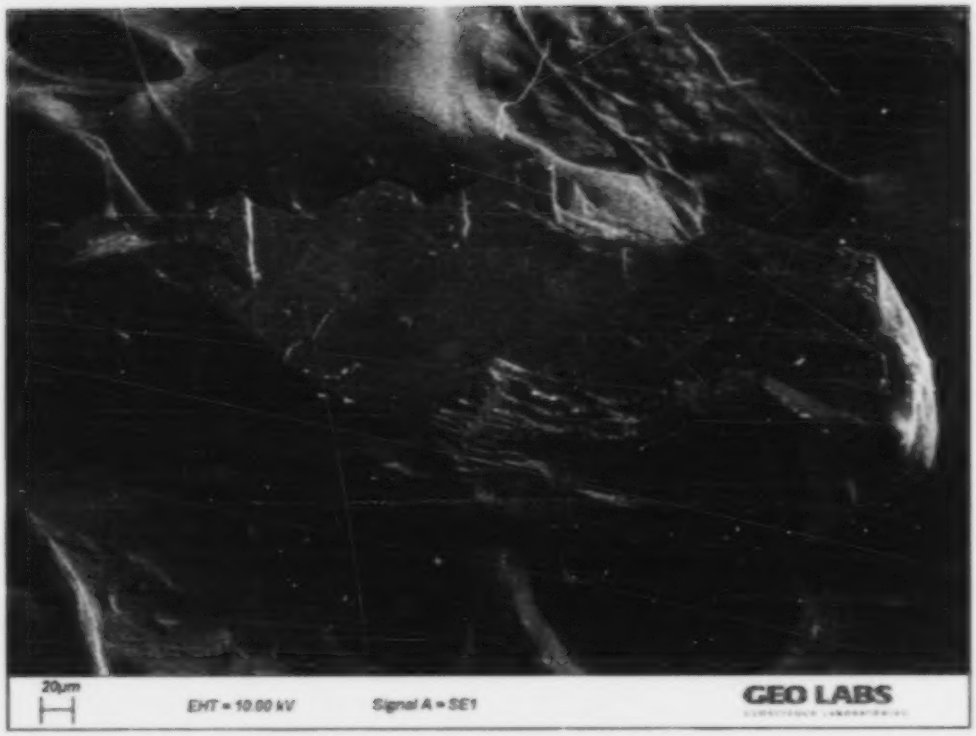

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-7. Grain GGDA0433-4

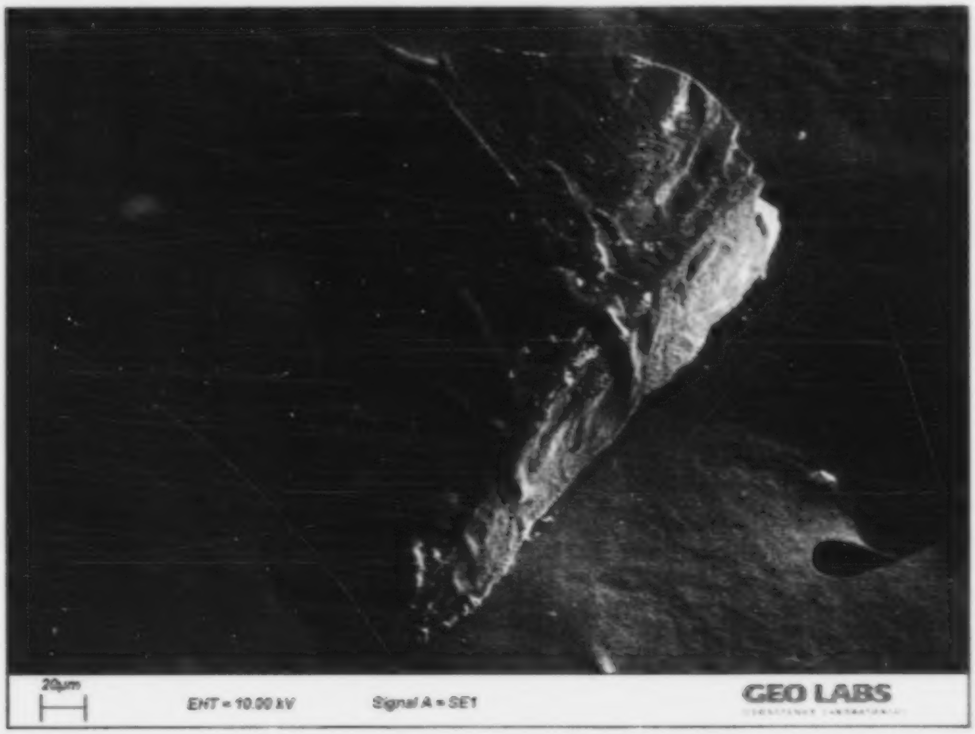

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-8. Grain GGDA0433-5

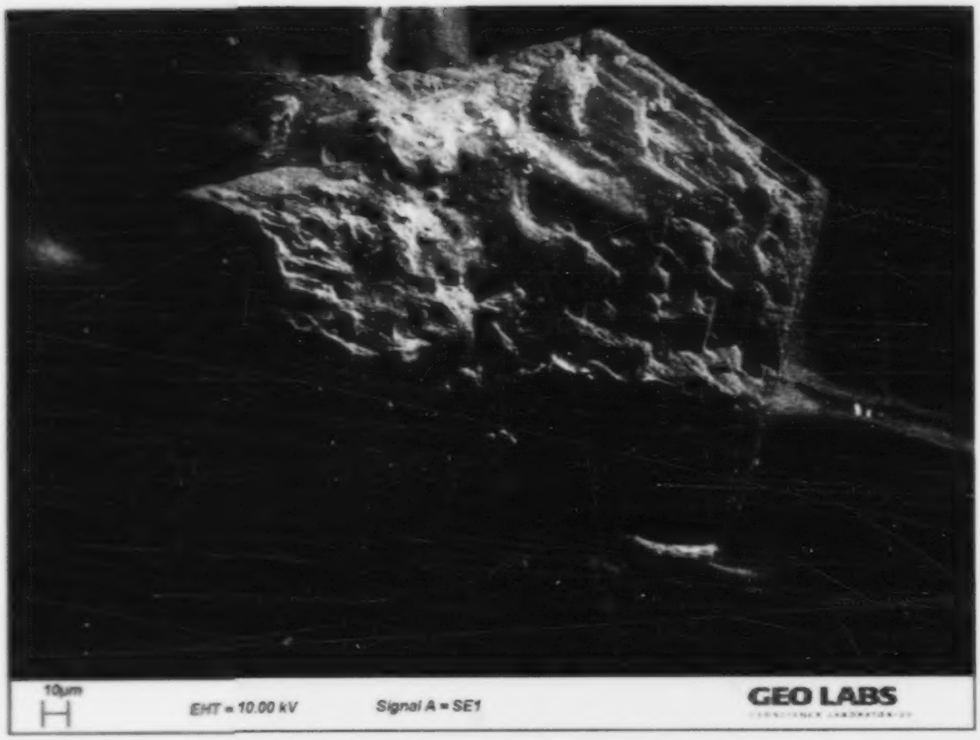

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-9. Grain GGDA0435-1

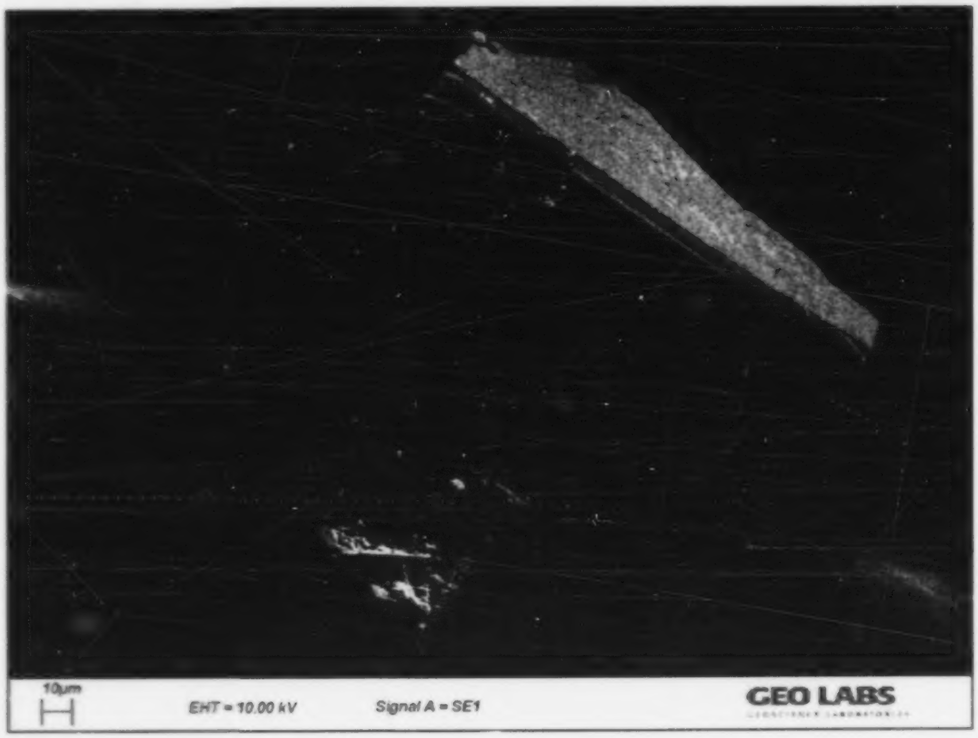

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-10. Grain GGDA0435-2

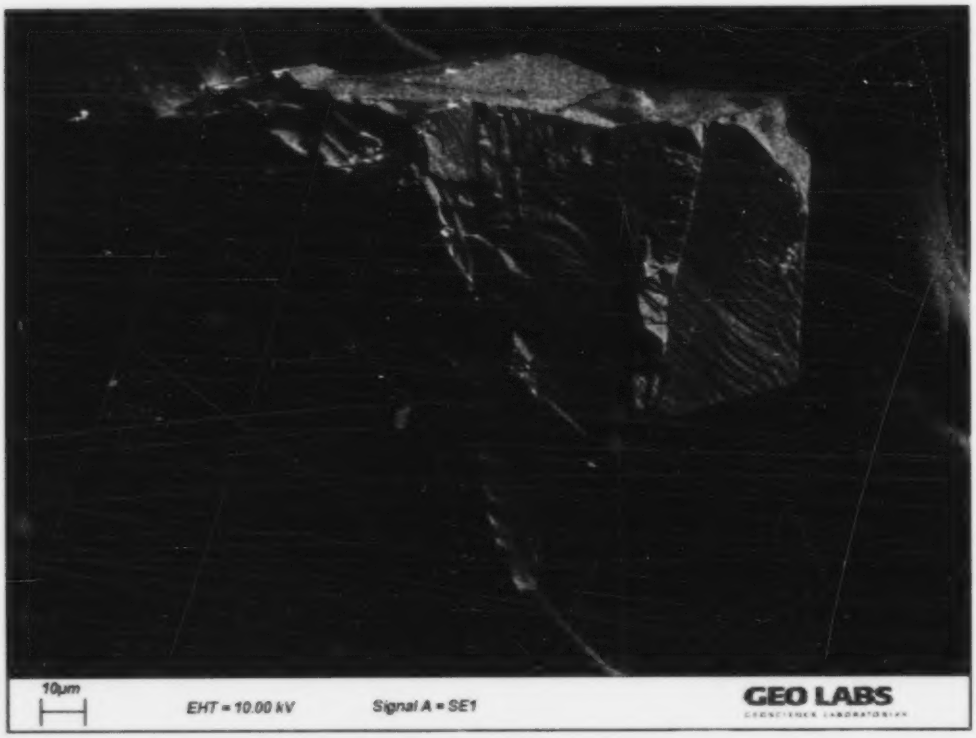

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-11. Grain GGDA0435-3

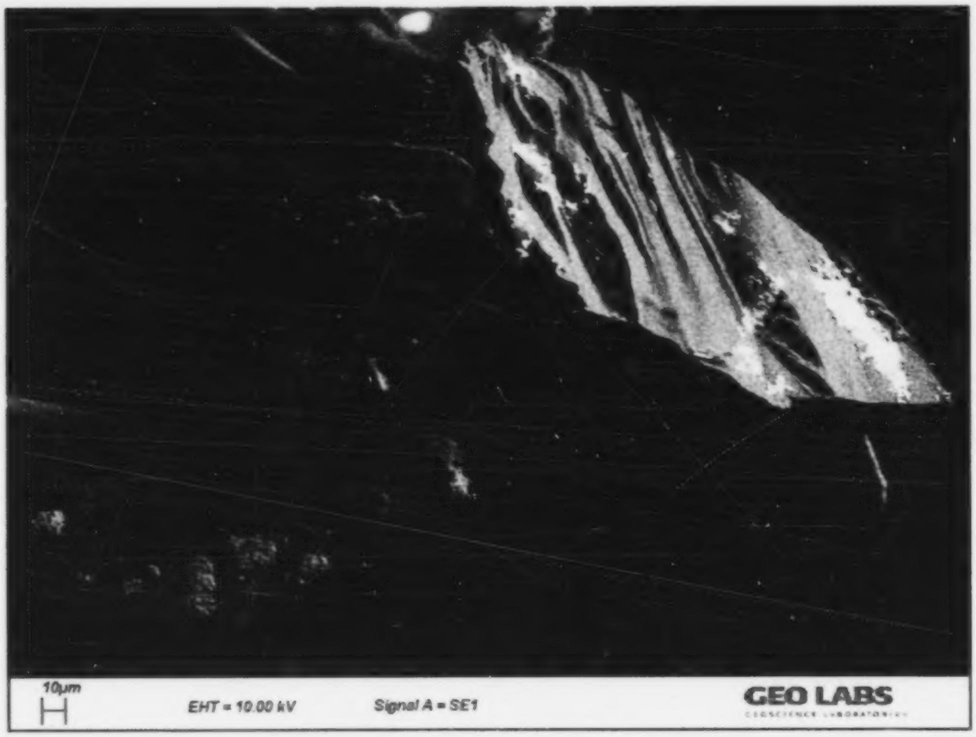

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-12. Grain GGDA0441-1

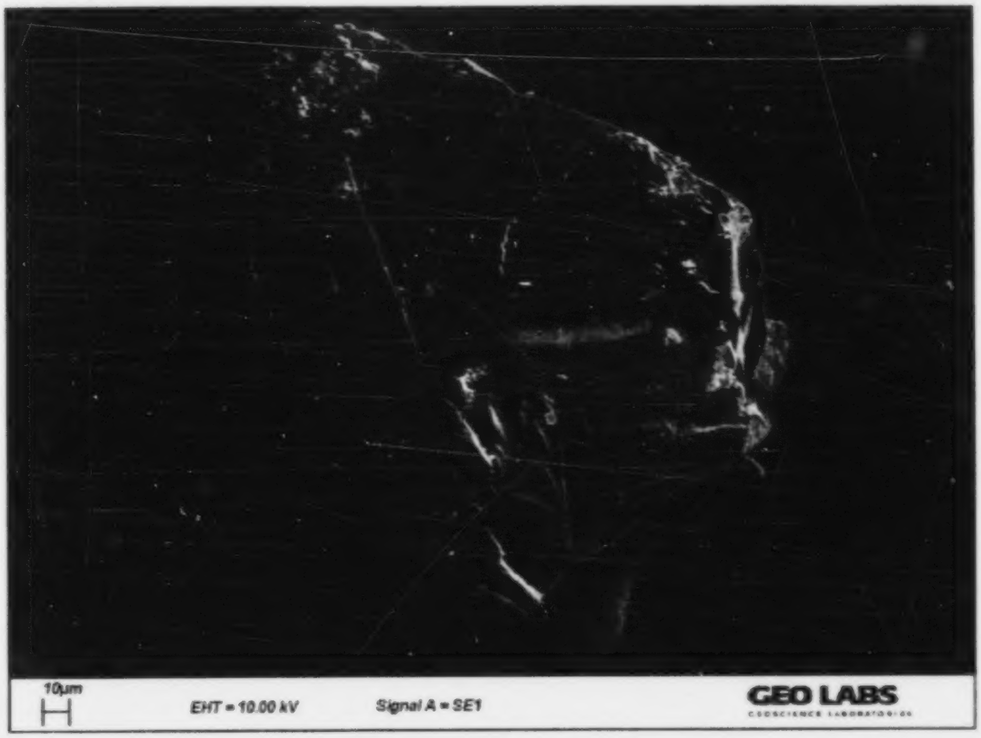

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-13. Grain GGDA0441-2

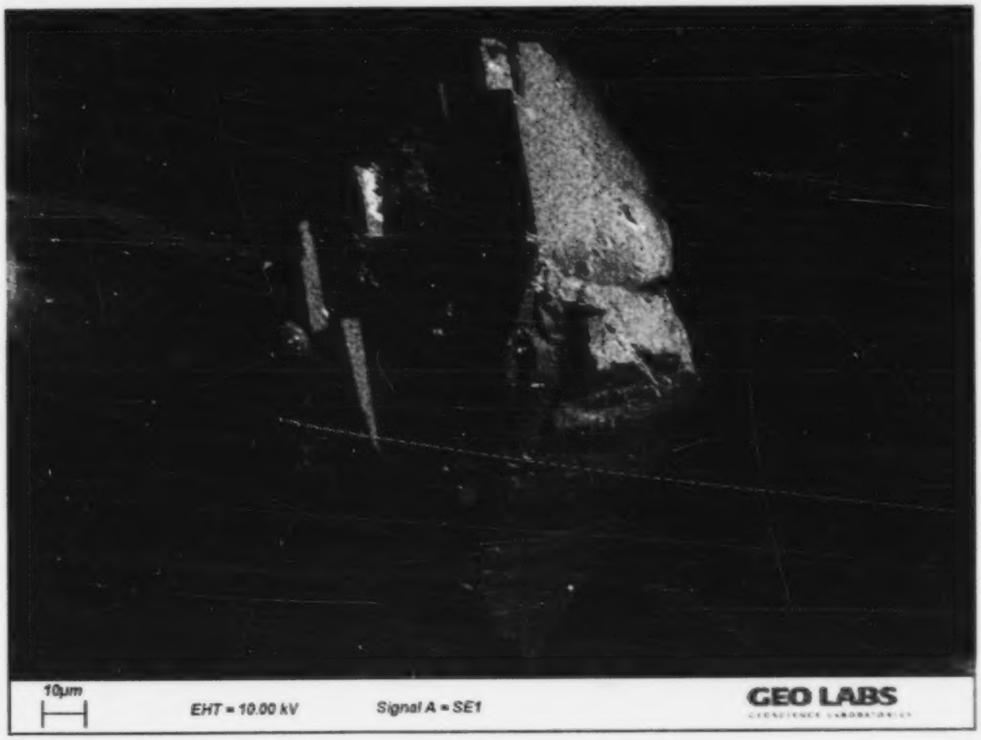

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-14. Grain GGDA0441-3

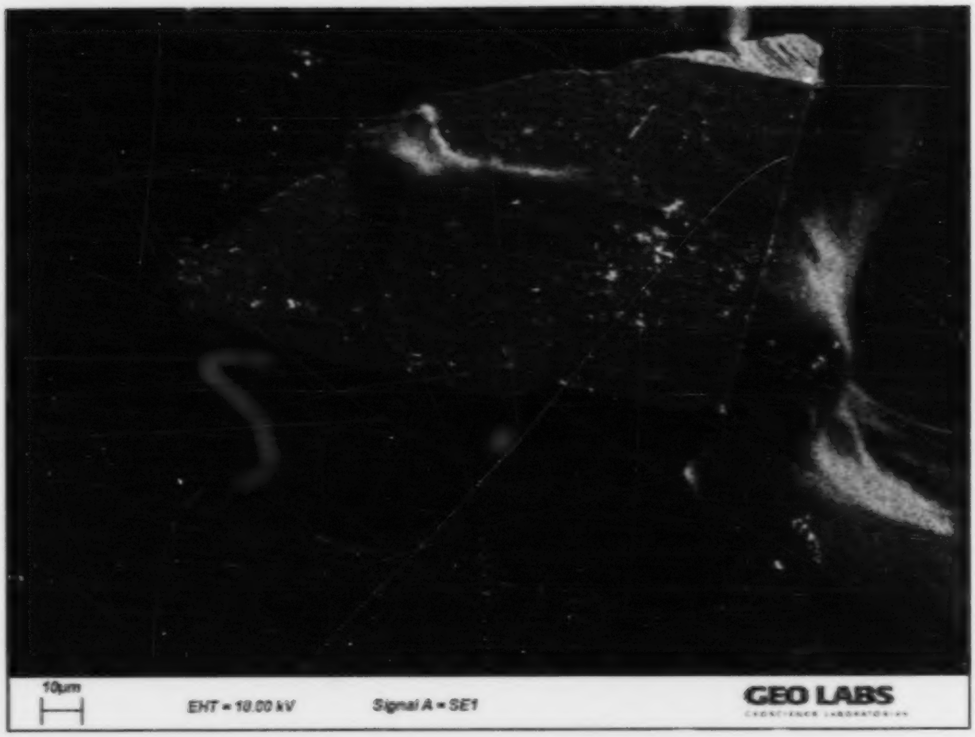

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-15. Grain GGDA0441-4

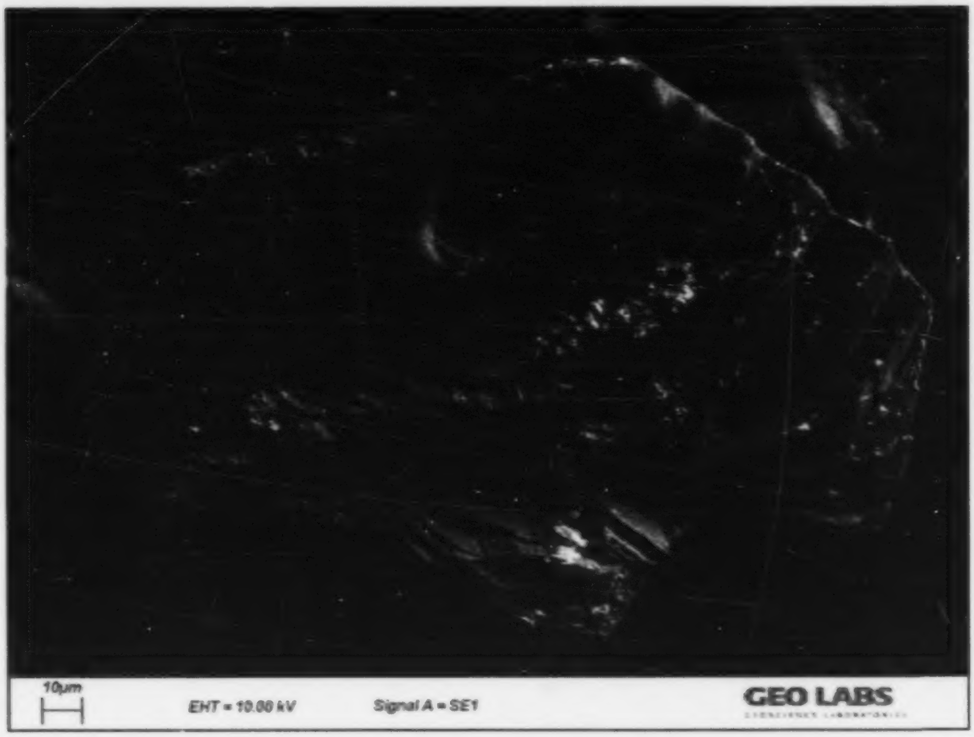

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-16. Grain GGDA0441-5

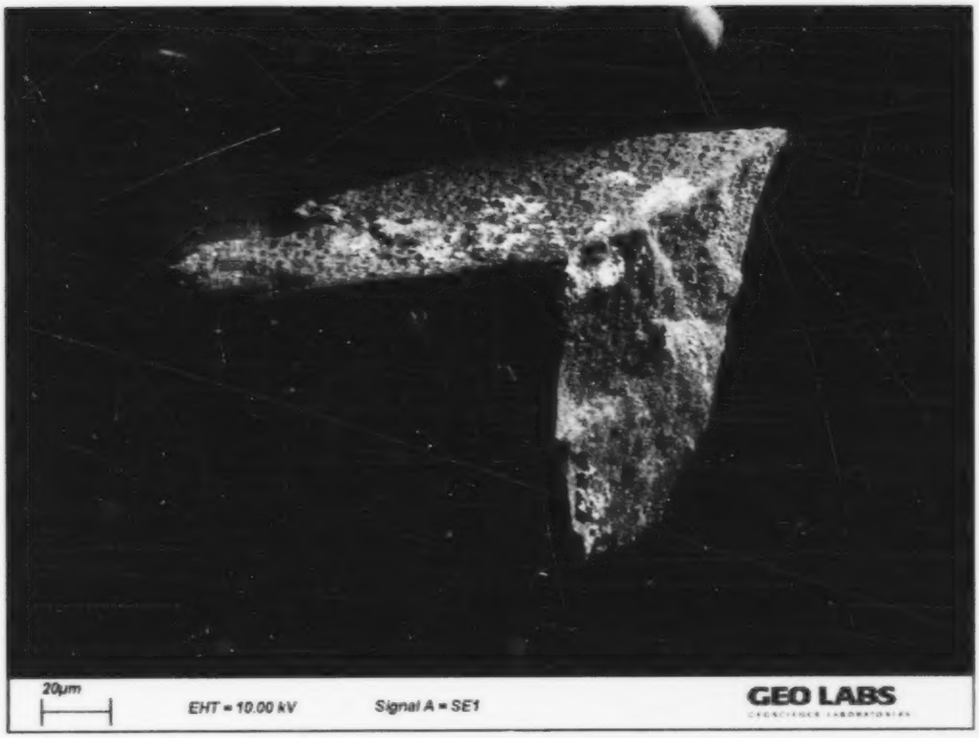

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-17. Grain GGDA0441-6

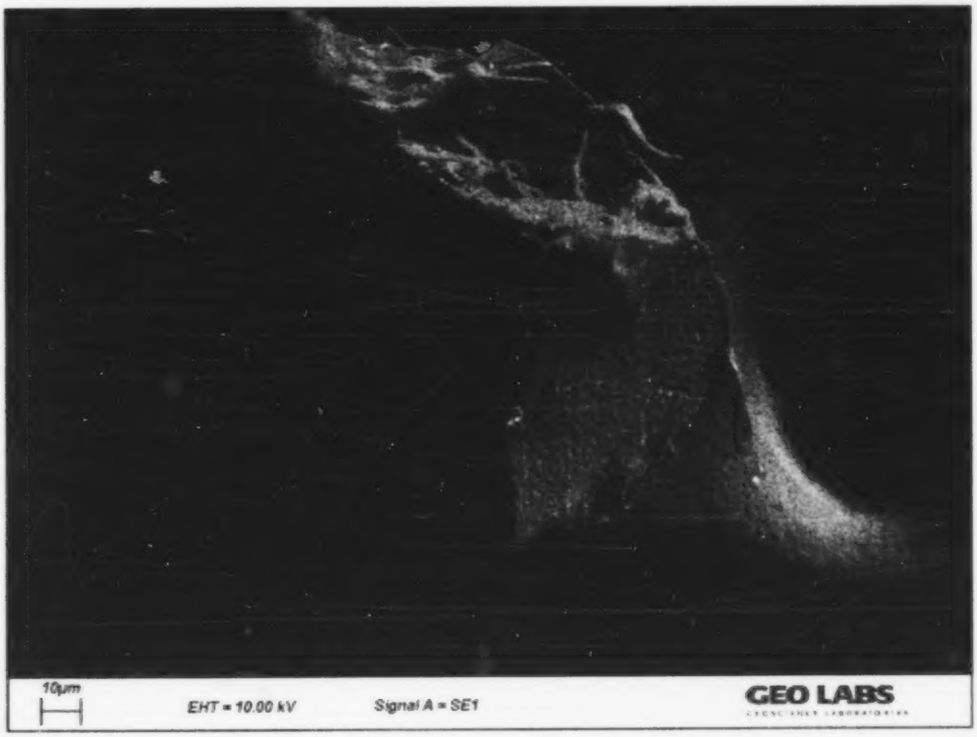

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-18. Grain GGDA0441-7

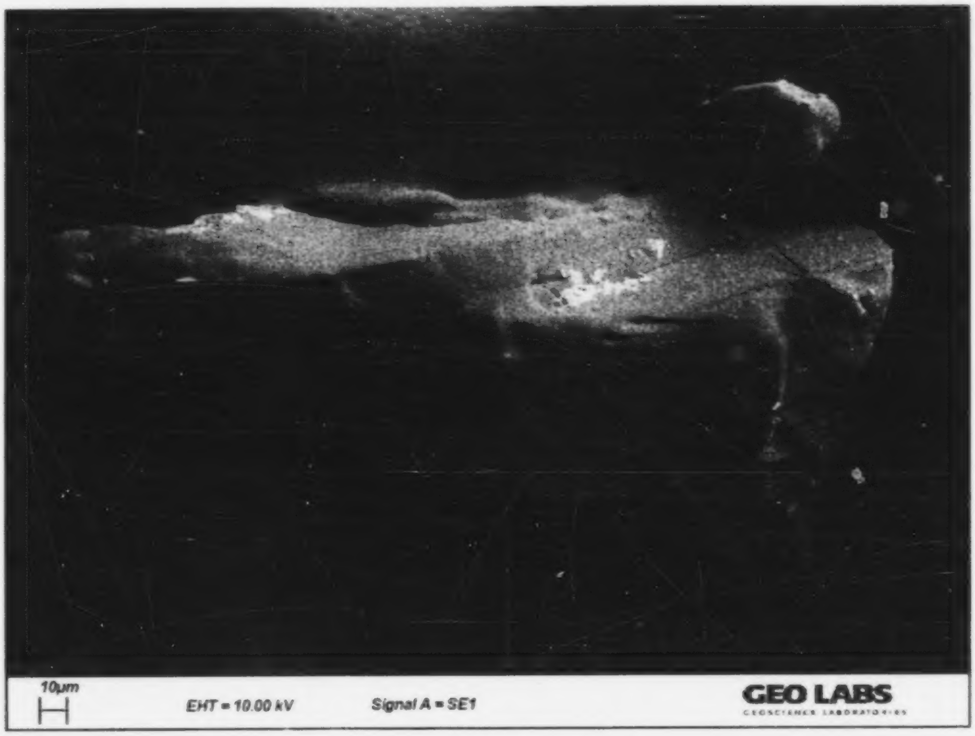

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-19. Grain GGDA0441-8

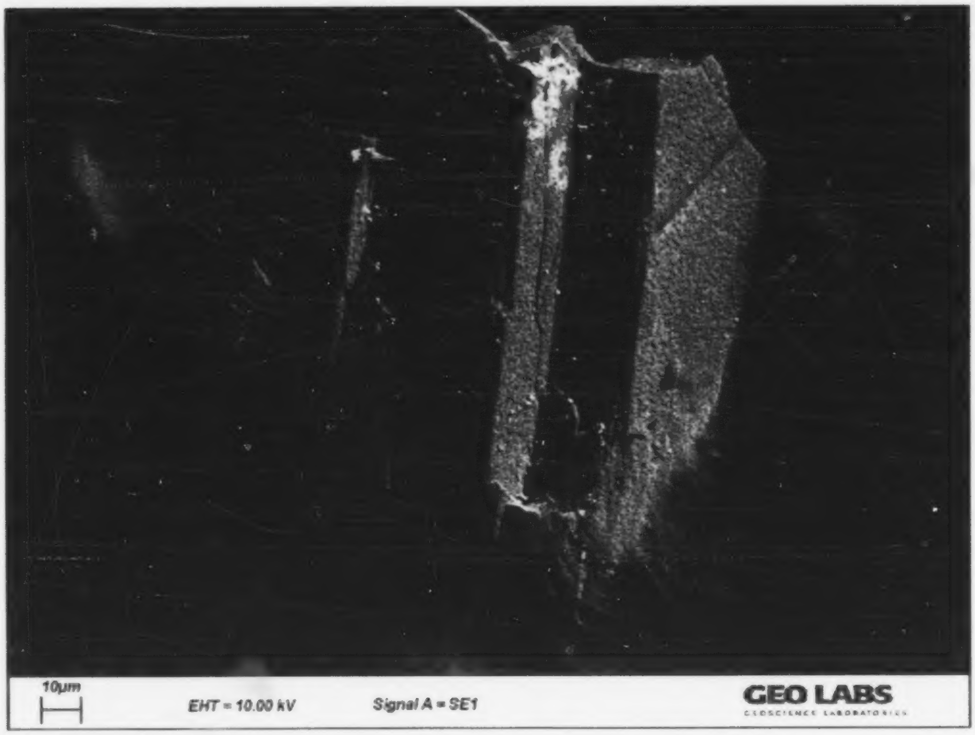

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-20. Grain GGDA0441-9

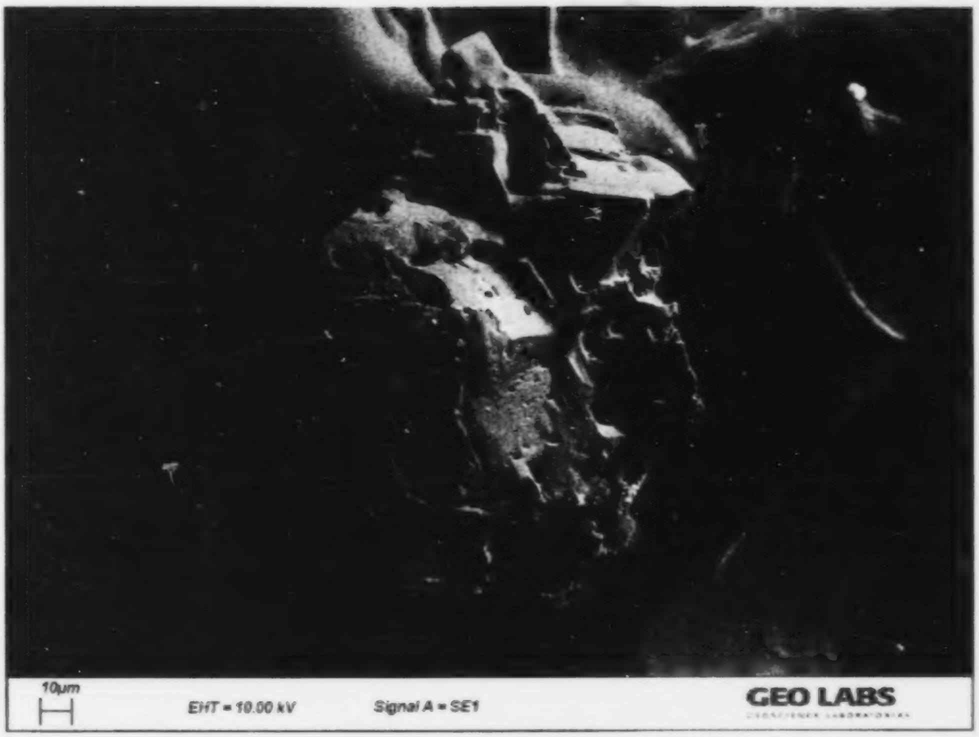

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-21. Grain GGDA0441-10

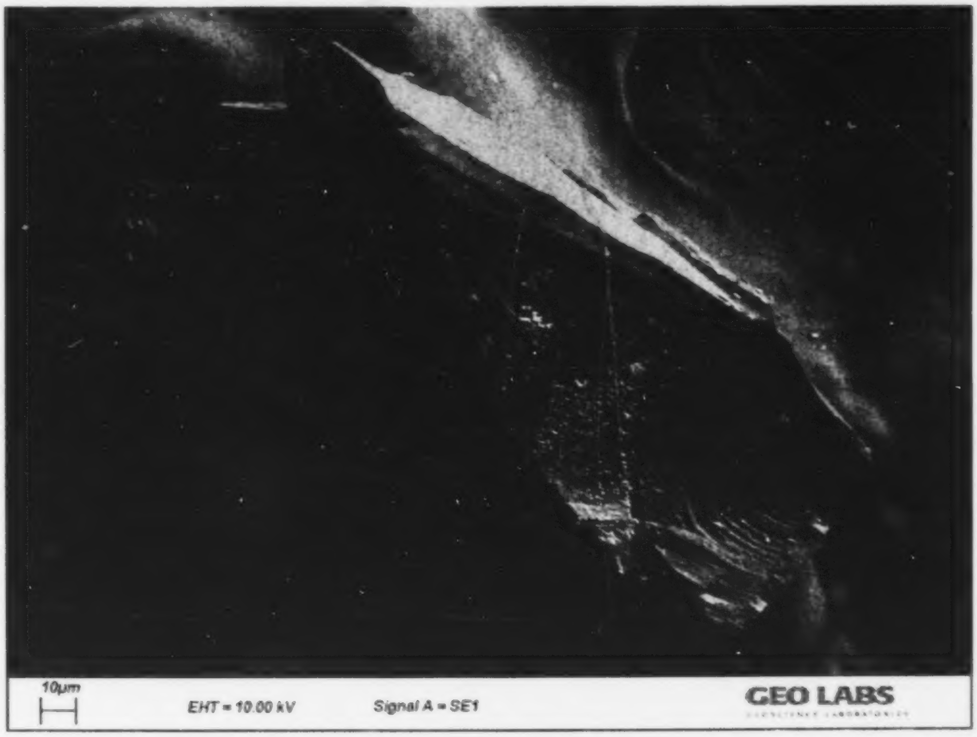

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-22. Grain GGDA0441-11

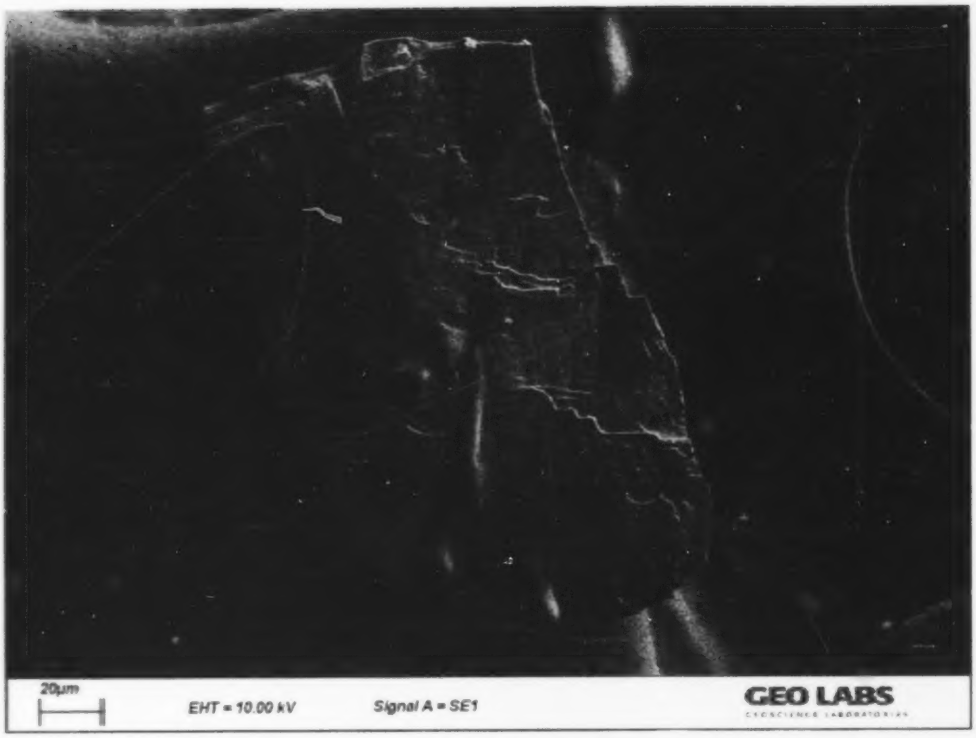

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-23. Grain GGDA0441-12

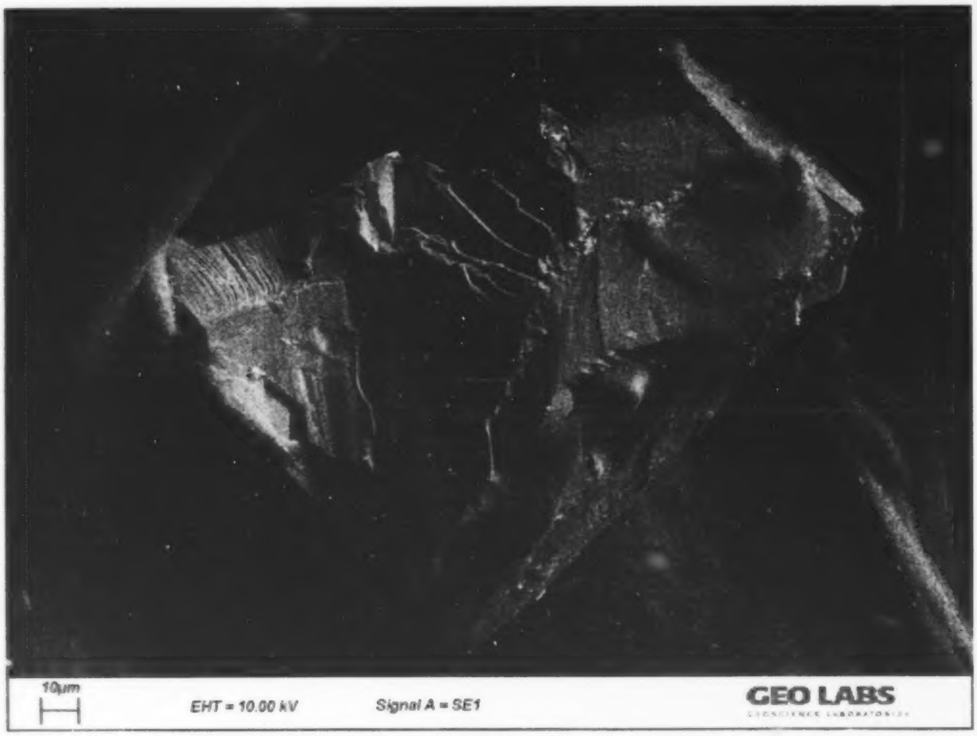

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-24. Grain GGDA0441-13

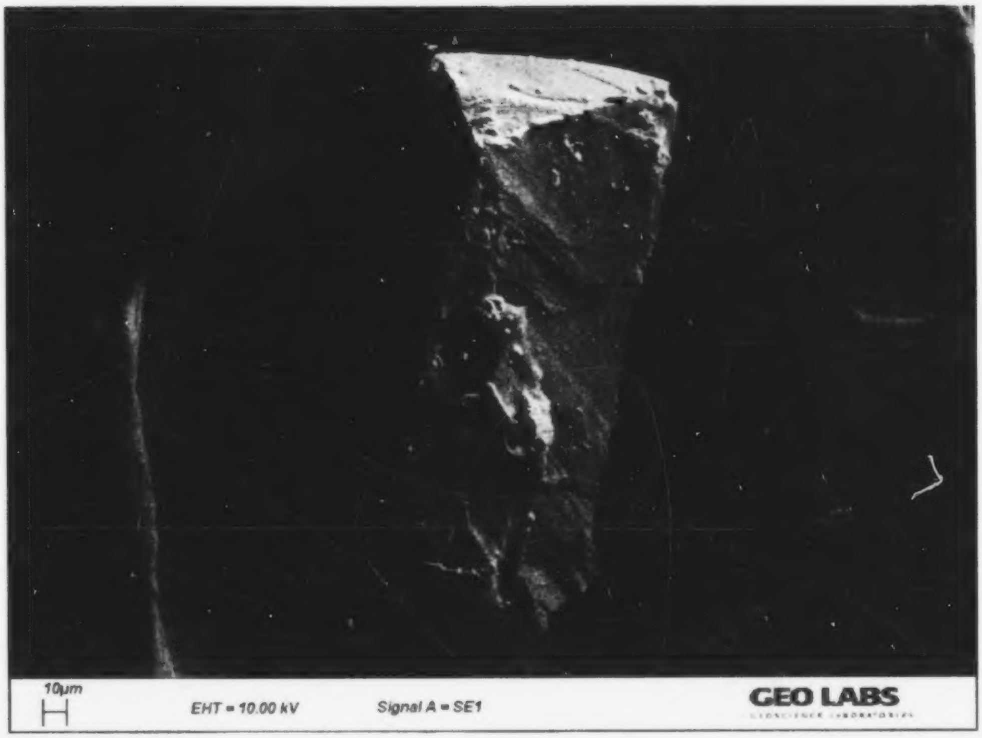

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-25. Grain GGDA0441-14

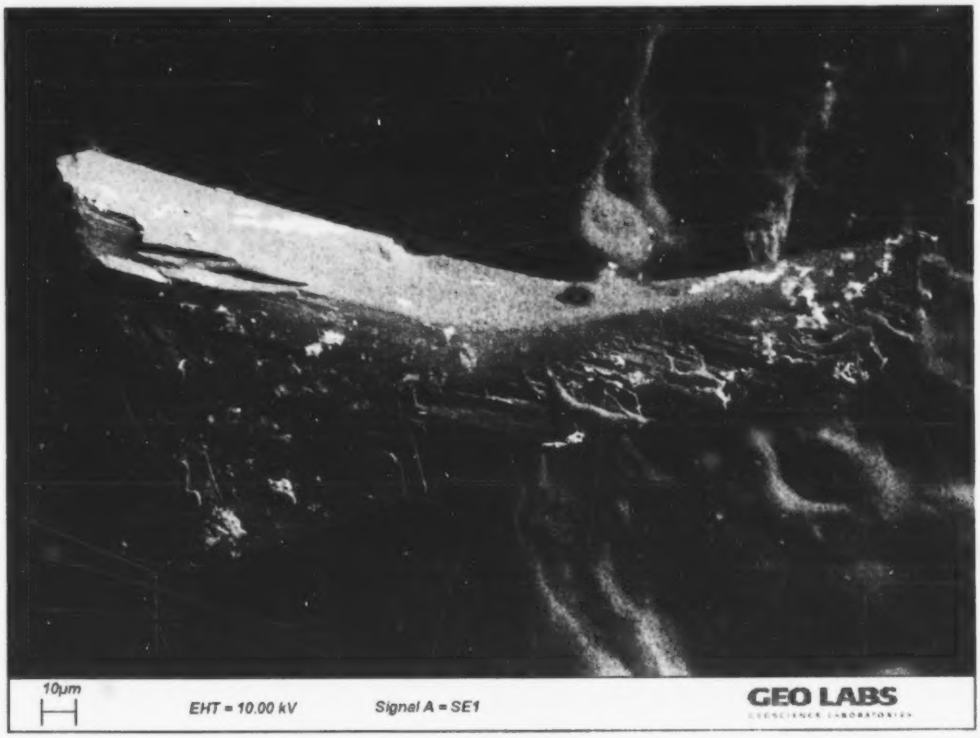

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-26. Grain GGDA0441-15

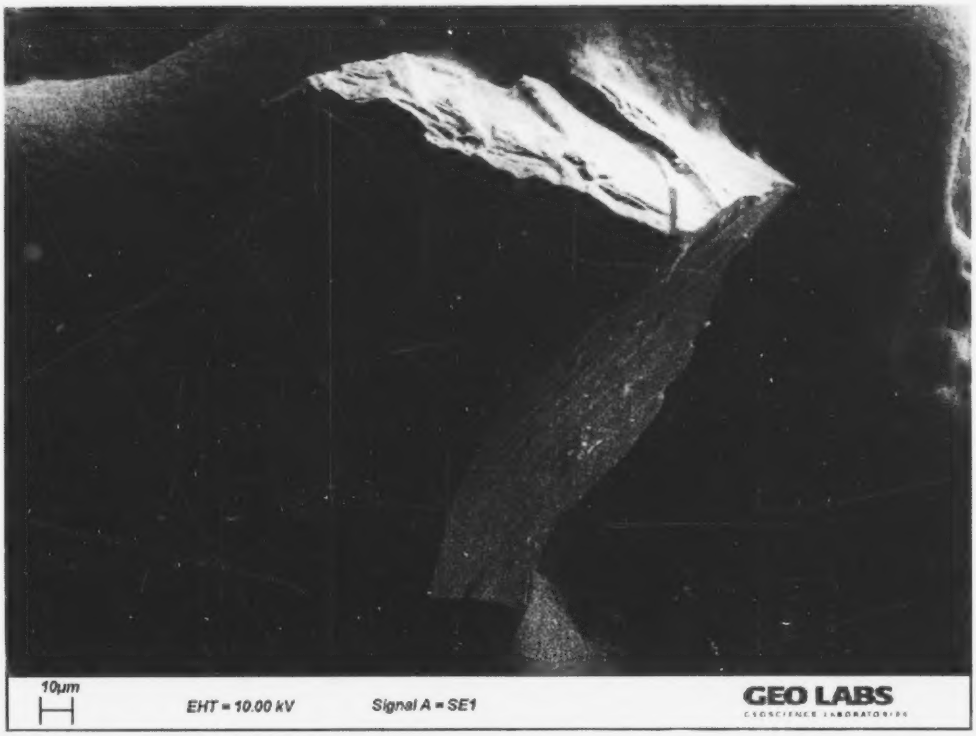

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-27. Grain GGDA0441-16

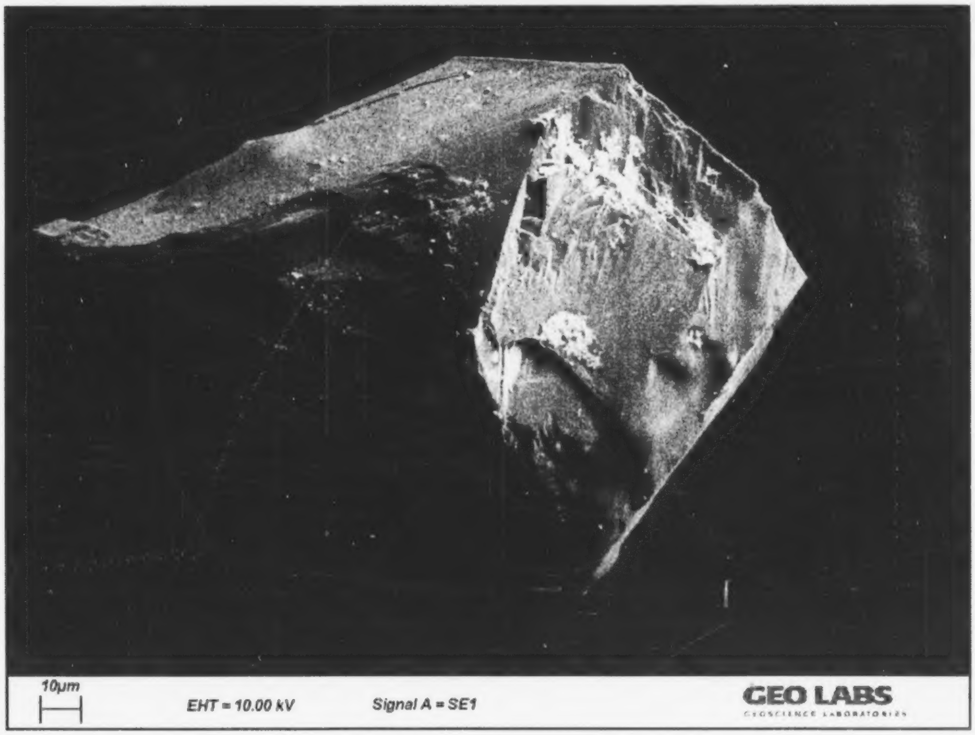

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-28. Grain GGDA0441-17

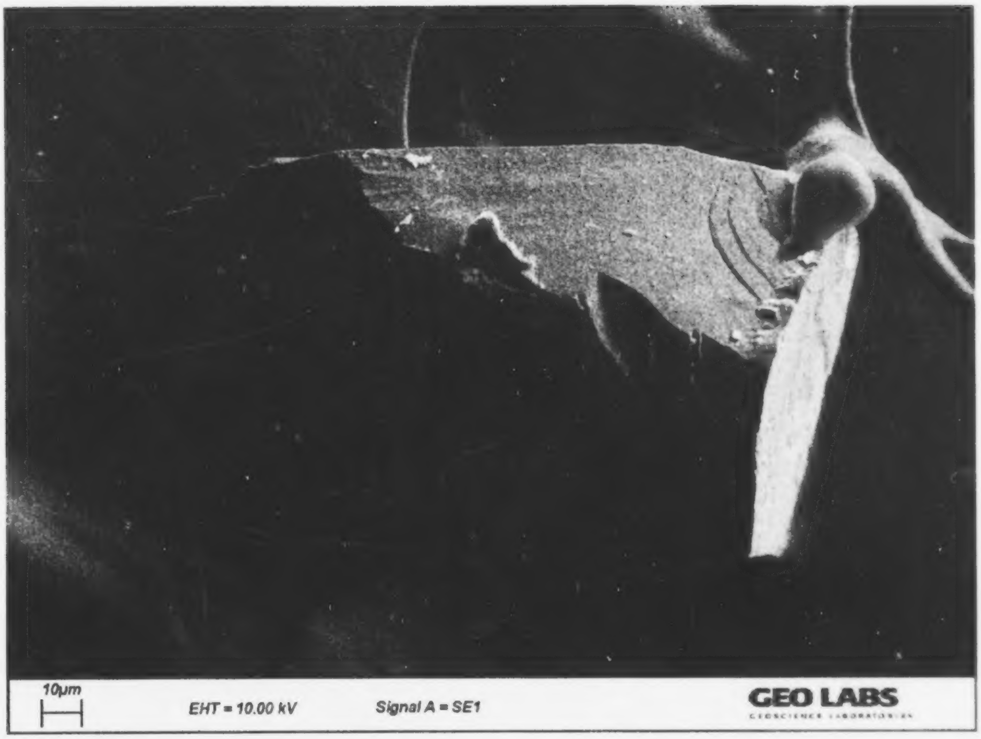

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-29. Grain GGDA0441-18

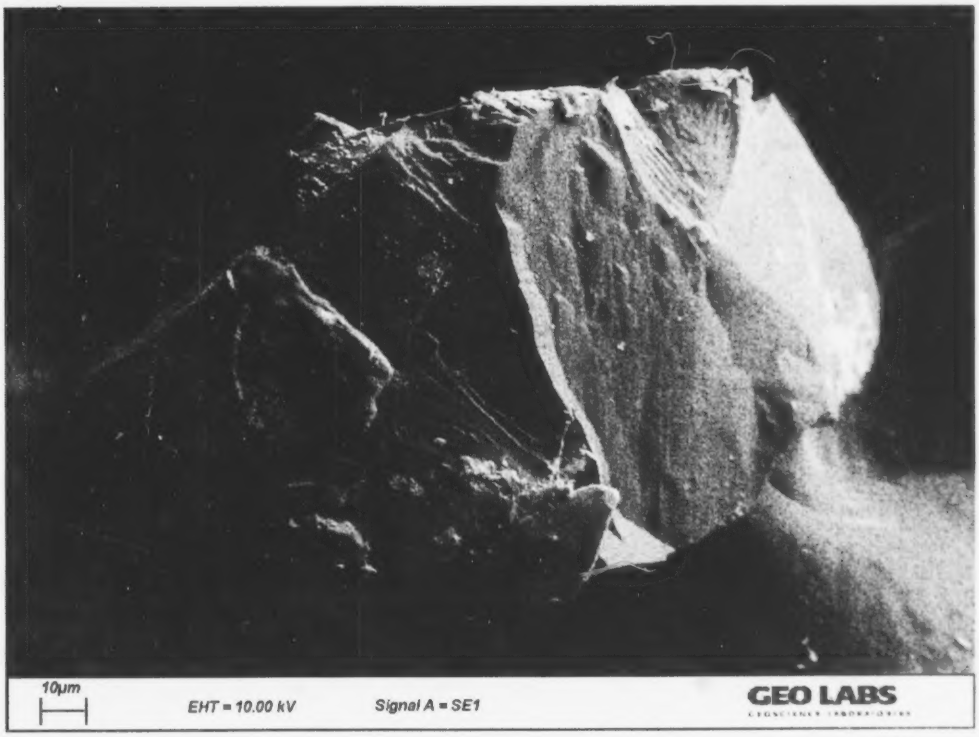

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-30. Grain GGDA0441-19

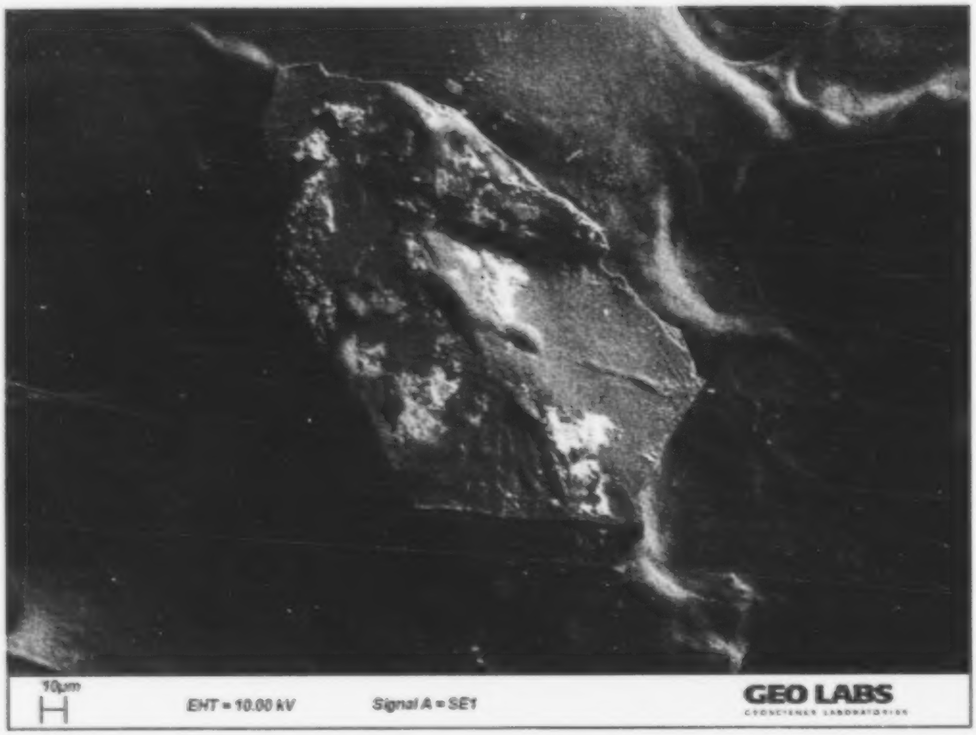

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-31. Grain GGDA0441-20

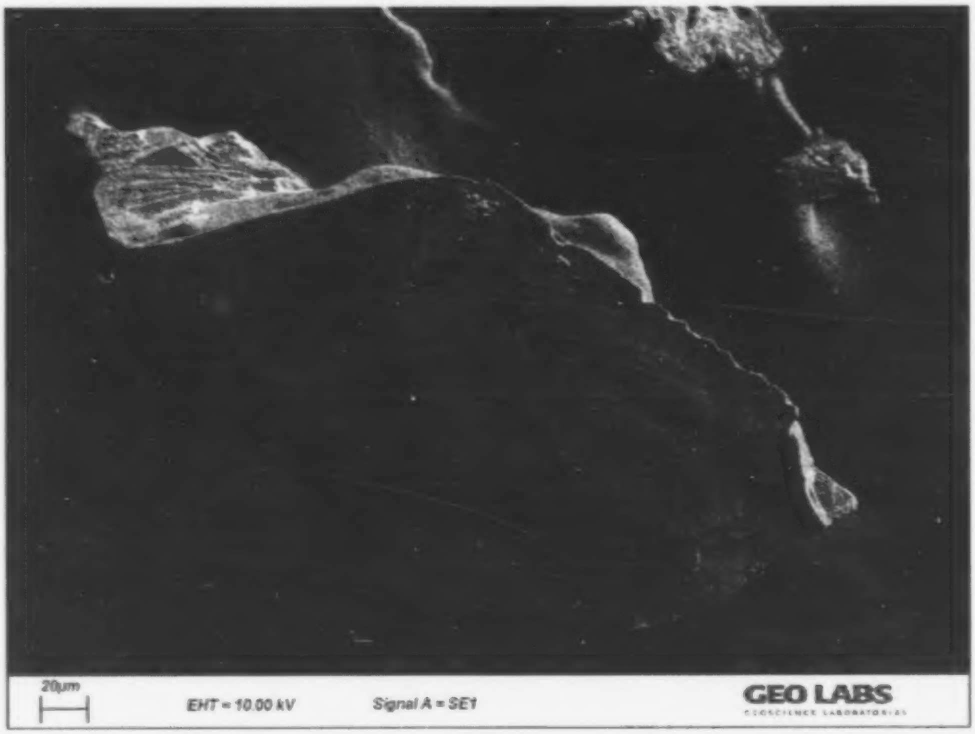

20µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS
GEOSCIENCE LABORATORIES

Photo A1-32. Grain GGDA0441-21

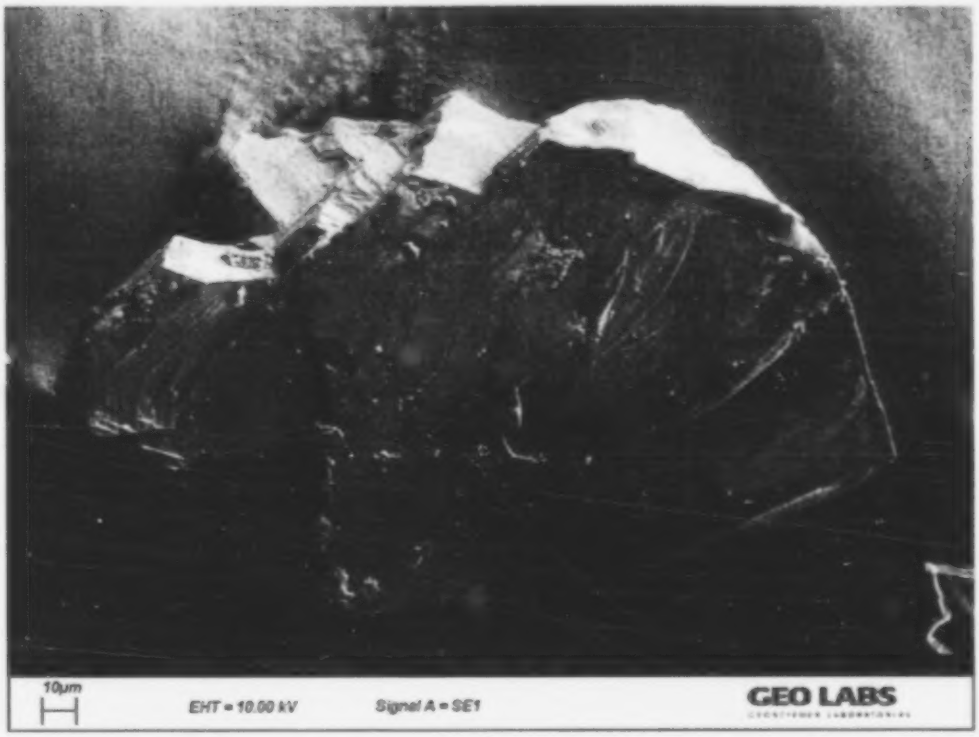

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-33. Grain GGDA0441-22

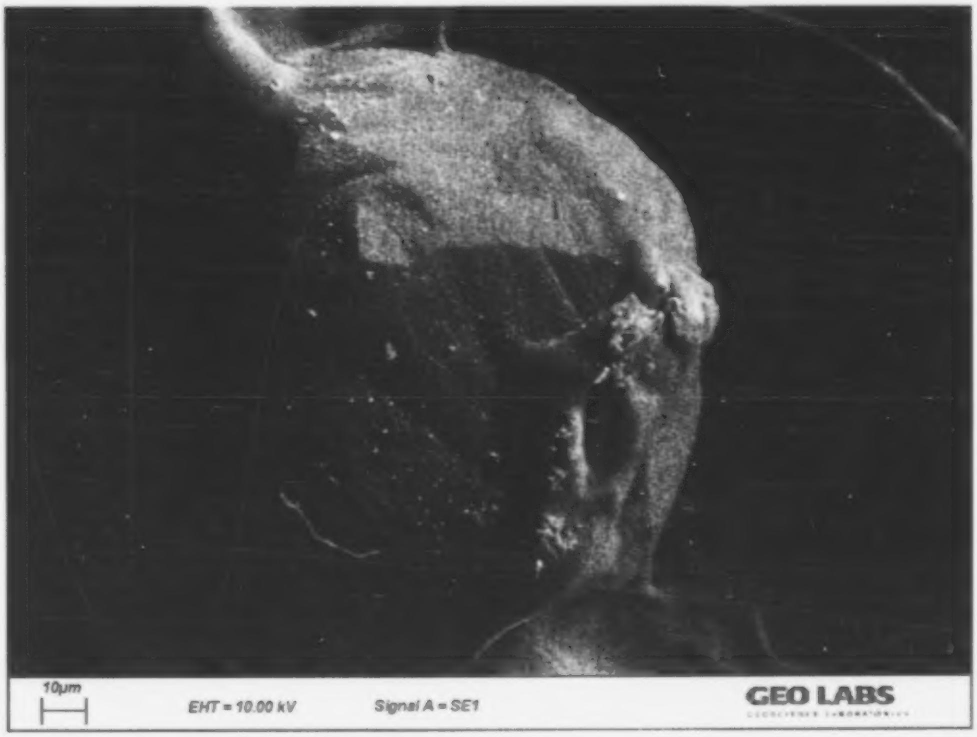

10µm
EHT = 10.00 kV
Signal A = SE1
GEO LABS

Photo A1-34. Grain GGDA0441-23

Appendix 2

Microdiamond Extraction, Selection and Description of 45 Rock Samples, and Geochemical Analysis

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SGS Lakefield Research Limited

GEOCHEMICAL ANALYSIS AND MICRODIAMOND EXTRACTION, SELECTION AND DESCRIPTION OF FORTY FIVE ROCK SAMPLES

prepared for

Discover Abitibi

8901-456 LIMS MI0005-NOV04, MI0006-NOV04, MI0003-DEC04, MI0004-DEC04,
MI0007-DEC04, MI0008-DEC04

NOTE:

This report refers to the samples as received.

The practice of this Company in issuing reports of this nature is to require the recipient not to publish the report or any part thereof without the written consent of SGS Lakefield Research Limited.

Lakefield Research

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Member of SGS SA Group

April 19, 2005

Summary

Forty-five samples, listed in Table 1, were submitted for geochemical analysis and microdiamond extraction, selection and description. The samples were crushed to nominal passing 1" and a 24.0 kg portion was riffled out to be processed for microdiamond content. Caustic dissolution residues were collected on a 150 mesh (100 µm) screen, then submitted for Frantz magnetic separation to isolate the microdiamonds in the non-paramagnetic fraction. All results are reported as a Certificate of Analysis in Appendix A.

Table 1: Sample List (with LIMS number)

MI0005-NOV04	MI0006-NOV04	MI0003-DEC04
GGDA0401	GGDA0409	GGDA0416
GGDA0402	GGDA0410	GGDA0417
GGDA0403	GGDA0411	GGDA0418
GGDA0404	GGDA0412	GGDA0419
GGDA0405	GGDA0413	GGDA0420
GGDA0406	GGDA0414	GGDA0421
GGDA0407	GGDA0415	GGDA0422
GGDA0408		GGDA0423
MI0004-DEC04	**MI0007-DEC04**	**MI0008-DEC04**
GGDA0424	GGDA0431	GGDA0439
GGDA0425	GGDA0432	GGDA0440
GGDA0426	GGDA0433	GGDA0441
GGDA0427	GGDA0434	GGDA0442
GGDA0428	GGDA0435	GGDA0443
GGDA0429	GGDA0436	GGDA0444
GGDA0430	GGDA0437	GGDA0445
	GGDA0438	

A detailed description of the microdiamond extraction process, as well as a generalized processing flow sheet, may be found in Appendix B.

As part of our on-going commitment to providing a high quality service and to monitor the recovery efficiency of sample material in each kiln pot, we put spikes in each sample and recovered these spikes at the end of the process during microdiamond selection.

The recovery of coarse, 35 mesh spikes in this group of samples was 88% and the recovery of relatively fine, 80 mesh spikes was 86%.

A representative 250 g portion of the remaining crushed sample was pulverized and submitted to SGS Minerals Laboratory in Toronto for whole rock geochemical analysis. 53 elements were determined by the ICM90A package - samples (0.01 g) are fused with sodium peroxide in a graphite crucible and dissolved in weak acid. Al, Ba, Be, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Ni, P, Sc, Sr, Ti, V, Zn, Zr are determined by ICP-OES and the rest by ICP-MS instruments. Si was determined by lithium metaborate fusion and ICP-OES analysis. The data are reported in Appendix C, along with standards, blanks and duplicates.

SGS Lakefield Research Limited
April 19, 2005

Kim Gibbs

Kim Gibbs, H.B.Sc. P. Geo.
Mineralogist

Hugh de Souza, Ph.D., P.Geo.
Group Leader - Diamond Exploration Services

Technical Support: Rob Gill, Scott Young, Wade Pogue, Krista Henderson, Cindy Matthews, Maria Mezei, Elena Valeyeva, Andrei Filippov, Teresa Mailath, Tracy Gill and Zakia Al Haddad

APPENDIX A

CERTIFICATE OF ANALYSIS RESULTS OF MICRODIAMOND EXTRACTION, SELECTION AND DESCRIPTION

SGS

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P.O. Box 4300 - 185 Concession St.
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Phone: 705-652-2038 FAX: 705-652-6441

Discover Abitibi
Attn : Gary Grabowski

C/O Ministry of Northern Development and Mines
10 Government Road,
Kirkland Lake, Ontario, P2N 3M6

Phone: (705) 568-4516
Fax:(705) 568-4515

Lakefield Thursday, February 03, 2005

Date Rec. : 19 November 2004
LR Report : **MI0005-NOV04**
Project : 8901-456
Client Ref : LR2403482

CERTIFICATE OF ANALYSIS

Sample ID	*Caustic Wt kg	*Dia #	*Dia (ct)	*Total pours
1: GGDA0401	27.90	0	0.000	5
2: GGDA0402	25.00	1	0.000	5
3: GGDA0403	25.60	0	0.000	5
4: GGDA0404	24.10	0	0.000	5
5: GGDA0405	24.00	0	0.000	3
6: GGDA0406	24.00	0	0.000	3
7: GGDA0407	24.00	0	0.000	4
8: GGDA0408	24.00	0	0.000	4

Maria Mezei
Diamond Selection Specialist

Email: gary.grabowski@ndm.gov.on.ca

LIMS

Data reported represents the sample submitted to SGS Lakefield Research. Reproduction of this analytical report in full or in part is prohibited without prior written approval.

SGS

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 31, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0401**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates, and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 27.90 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zaki
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

SGS

SGS Lakefield Research Limited
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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 31, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0401**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 27.90 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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January 31, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0401**
Sample Weight: 27.90 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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January 31, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0401**
Sample Weight: 27.90 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

SGS

SGS Lakefield Research Limited
185 Concession St., Box 4300
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Tel: (705) 652-2112
Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 31, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0402**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Not applicable
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates, and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 25.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 1

Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 31, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0402**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	1	0.011	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	1	0.011	0.000

Sample Weight: 25.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 1

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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January 31, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0402**
Sample Weight: 25.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0402**
Sample Weight: 25.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
1	0.17	0.17	0.19		0.000000	Yellow	Opaque	99+%	Cubic, very minor cleavages
1				0.011	0.000055	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
1					0.000055	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 31, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0403**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides, silicates, and rock fragments
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 25.60 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zaki
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 31, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0403**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 25.60 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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January 31, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0403**
Sample Weight: 25.60 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0403**
Sample Weight: 25.60 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

0		0.000000	TOTAL

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. MI0005-NOV04
Sample No. GGDA0404

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.10 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zaki
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:
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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0404**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.10 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:
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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0404**
Sample Weight: 24.10 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0404**
Sample Weight: **24.10 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0405**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0405**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0405**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0405**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0406**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:
SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

SGS

SGS Lakefield Research Limited
185 Concession St., Box 4300
Lakefield, Ontario
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Tel: (705) 652-2112
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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0406**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0406**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0406**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0407**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and rock fragments
+150	Ferromagnetic Mag	Rock fragments
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0407**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
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Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0407**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0407**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0408**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 3, 2005
LIMS No. **MI0005-NOV04**
Sample No. **GGDA0408**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
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Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0408**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 3, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0005-NOV04**
Sample No. **GGDA0408**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

No.					Carats				
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

SGS

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2038 FAX: 705-652-6441

Discover Abitibi
Attn : Gary Grabowski

C/O Ministry of Northern Development and Mines
10 Government Road,
Kirkland Lake, Ontario P2N 3M6

Phone: (705) 568-4516
Fax:(705) 568-4515

Lakefield Thursday, January 27, 2005

Date Rec. : 19 November 2004
LR Report : **MI0006-NOV04**
Project : 8901-456
Client Ref : LR2403482

CERTIFICATE OF ANALYSIS

Sample ID	*Caustic Wt kg	*Dia #	*Dia (ct)	*Total pours
1: GGDA0409	24.0	0	0.000	4
2: GGDA0410	24.0	1	0.011	4
3: GGDA0411	24.0	0	0.000	3
4: GGDA0412	24.0	0	0.000	4
5: GGDA0413	24.0	0	0.000	4
6: GGDA0414	24.0	0	0.000	3
7: GGDA0415	24.0	0	0.000	3

Maria Mezei
Diamond Selection Specialist

Email: gary.grabowski@ndm.gov.on.ca

OnLine LIMS

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-456
Client: Discover Abitibi

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0409**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0409**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
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Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0409**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0409**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

0		0.000000	**TOTAL**

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

SGS

SGS Lakefield Research Limited
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Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0410**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides, silicates and rock fragments
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.011
Number of Diamonds: 1

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0410**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	1	2.214	0.011
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	1	2.214	0.011

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.011
Number of Diamonds: 1

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:
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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0410**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-1.18 / + 0.85 mm fraction									
1	1.28	1.11	1.18	2.214	0.011070	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, graphite inclusions, significant cleavages
1				2.214	0.011070	**Sub-Total**			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0410**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
1					0.011070	**TOTAL**			

Note Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0411**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Not applicable
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia
Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:
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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0411**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zaka

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0411**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0411**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0		0.000000	**TOTAL**

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0412**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0412**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0412**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0412**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0413**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Not applicable
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0413**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. MI0006-NOV04
Sample No. GGDA0413
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0413**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0		0.000000	**TOTAL**

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

SGS

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K0L 2H0, CANADA

Tel: (705) 652-2112
Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0414**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides
+150	Ferromagnetic Mag	Not applicable
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and sulphide

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:
SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. MI0006-NOV04
Sample No. GGDA0414

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
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Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:
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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0414**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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Fax: 705-652-3123

January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0414**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0415**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Not applicable
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and sulphide

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: January 27, 2005
LIMS No. **MI0006-NOV04**
Sample No. **GGDA0415**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0415**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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January 27, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0006-NOV04**
Sample No. **GGDA0415**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Discover Abitibi
Attn : Gary Grabowski

C/O Ministry of Northern Development and Mines,
10 Government Road, Kirkland Lake
Ontario, P2N 3M6
Phone: (705) 568-4516, Fax:(705) 568-4515

Lakefield Wednesday, February 09, 2005

Date Rec. : 30 November 2004
LR Report : **MI0003-DEC04**
Project : 8901-456
Client Ref : LR2403575

CERTIFICATE OF ANALYSIS

Sample ID	*Caustic Wt kg	*Dia #	*Dia (ct)	*Total pours
1: GGDA0416	24.00	0	0.000	4
2: GGDA0417	24.00	0	0.000	3
3: GGDA0418	24.00	0	0.000	5
4: GGDA0419	24.00	0	0.000	4
5: GGDA0420	24.00	0	0.000	4
6: GGDA0421	24.00	0	0.000	3
7: GGDA0422	24.00	0	0.000	3
8: GGDA0423	24.00	0	0.000	3

Maria Mezei
Diamond Selection Specialist

Email: gary.grabowski@ndm.gov.on.ca

OnLine LIMS

Data reported represents the sample submitted to SGS Lakefield Research. Reproduction of this analytical report in full or in part is prohibited without prior written approval.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0416**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
for Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0416**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
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Mineralogy Technician

Quality Control
for Tracy Gill
Mineralogy Technician

Note:
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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0416**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0416**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

0		0.000000	TOTAL

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0417**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Scale
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:
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Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0417**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0417**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0417**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0		0.000000	**TOTAL**

Note Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Tel: (705) 652-2112
Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0418**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Oxides and graphite
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0418**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zaki

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0418**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0418**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0419**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments and silicates
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0419**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. MI0003-DEC04
Sample No. GGDA0419
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0419**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0420**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0420**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
for Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0420**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0420**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0		0.000000	**TOTAL**

Note Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0421**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0421**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0421**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0421**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

SGS

SGS Lakefield Research Limited
185 Concession St., Box 4300
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K0L 2H0, CANADA

Tel: (705) 652-2112
Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0422**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0422**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

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Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0422**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0422**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0423**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
for Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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Project: **8901-456**
Client: **Discover Abitibi**

Date: February 9, 2005
LIMS No. **MI0003-DEC04**
Sample No. **GGDA0423**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
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Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

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Quality Control
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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0423**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 9, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0003-DEC04**
Sample No. **GGDA0423**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0					0.000000	**TOTAL**			

Note Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

SGS

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Lakefield - Ontario - KOL 2HO
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Lakefield Thursday, March 31, 2005

Discover Abitibi
Attn : Gary Grabowski

C/O Ministry of Northern Development and Mines, 10 Government Road, Kirkland Lake
Ontario, P2N 3M6
Phone: (705) 568-4516, Fax:(705) 568-4515

Date Rec. : 30 November 2004
LR Report : **MI0004-DEC04**
Project : 8901-456
Client Ref : LR2403575

CERTIFICATE OF ANALYSIS

Sample ID	*Login Wt kg	*Dia #	*Dia (ct)	*Total pours
1: GGDA0424	25.47	0	0.000	4
2: GGDA0425	25.16	0	0.000	5
3: GGDA0426	25.22	0	0.000	3
4: GGDA0427	24.96	0	0.000	4
5: GGDA0428	25.19	0	0.000	3
6: GGDA0429	25.25	0	0.000	4
7: GGDA0430	25.68	0	0.000	3

Maria Mezei
Diamond Selection Specialist

Email: gary.grabowski@ndm.gov.on.ca

OnLine LIMS

Data reported represents the sample submitted to SGS Lakefield Research. Reproduction of this analytical report in full or in part is prohibited without prior written approval.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0424**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0424**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zaki

Selection and Description
Zakia Al Haddad
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0424**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0424**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0425**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0425**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

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Mineralogy Technician

Quality Control
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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0425**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0425**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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SGS Lakefield Research Limited
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Tel: (705) 652-2112
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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0426**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0426**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
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Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0426**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0426**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0427**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates and oxides

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Tracy Gill
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0427**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
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Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0427**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0427**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0428**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Oxides, rock fragments and scale
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, rock fragments and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0428**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0428**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0428**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 31, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0429**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, rock fragments and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 31, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0429**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zaki

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:
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March 31, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0429**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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March 31, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0429**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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K0L 2H0, CANADA

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Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0430**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

EBaun

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:
SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 16, 2005
LIMS No. **MI0004-DEC04**
Sample No. **GGDA0430**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0430**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 16, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0004-DEC04**
Sample No. **GGDA0430**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

SGS

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Lakefield Tuesday, April 05, 2005

Discover Abitibi
Attn : Gary Grabowski

C/O Ministry of Northern Development and Mines, 10 Government Road, Kirkland Lake
Ontario, P2N 3M6
Phone: (705) 568-4516, Fax:(705) 568-4515

Date Rec. : 01 December 2004
Lab Report : **MI0007-DEC04**
Project : 8901-456
Client Ref : LR2403593

CERTIFICATE OF ANALYSIS

Sample ID	*Login Wt kg	*Dia #	*Dia (ct)	*Total pours
1: GGDA0431	25.93	0	0.000	4
2: GGDA0432	25.05	1	0.000	4
3: GGDA0433	25.09	5	0.000	5
4: GGDA0434	25.83	0	0.000	4
5: GGDA0435	26.13	3	0.000	4
6: GGDA0436	25.90	0	0.000	4
7: GGDA0437	25.40	0	0.000	4
8: GGDA0438	25.83	0	0.000	4

Maria Mezei
Diamond Selection Specialist

Email: gary.grabowski@ndm.gov.on.ca

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-456
Client: Discover Abitibi

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0431**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Teresa Mailath
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0431**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and **Weighed Individually**	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Teresa Mailath
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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March 22, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0431**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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March 22, 2005

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0431**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0					0.000000	**TOTAL**

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

SGS

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0432**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 1

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0432**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	1	0.012	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	1	0.012	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 1

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0432**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0432**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
1	0.37	0.29	0.07		0.000000	◂ Yellow	Transparent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
1				0.012	0.000060	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
1					0.000060	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0433**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Oxides and silicates
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Not applicable
-20+150	Diamagnetic Non-mag (0.5 amp)	Not applicable

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 5

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al-Haddad
Mineralogy Technician

Quality Control
Maria Mezei
Diamond Selection Specialist

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0433**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	3	0.032	0.000
	-150 / +100 µm	2	0.011	0.000
	TOTAL	5	0.043	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 5

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al-Haddad
Mineralogy Technician

Quality Control
Maria Mezei
Diamond Selection Specialist

Note:
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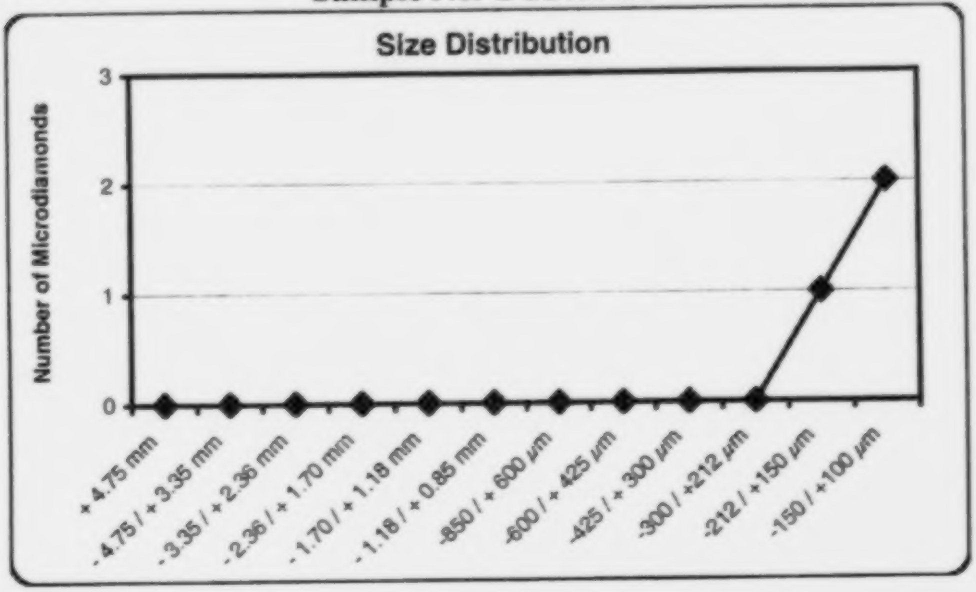
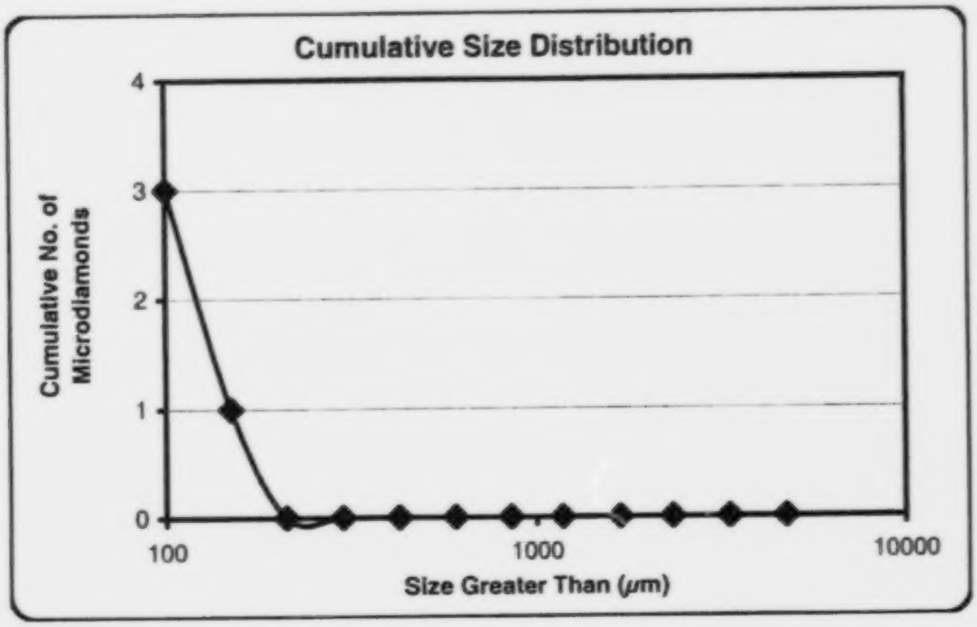
Sample No. GGDA0433





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March 22, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0433**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
+ 4.75 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-4.75 / + 3.35 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-3.35 / + 2.36 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-2.36 / + 1.70 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.70 / + 1.18 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-1.18 / + 0.85 mm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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March 22, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0433**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-212 / + 150 µm fraction									
1	0.31	0.17	0.13		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages
2	0.23	0.20	0.12		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages
3	0.57	0.26	0.03		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages
3				0.032	0.000160	Sub-Total			
-150 / + 100 µm fraction									
1	0.37	0.20	0.14		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages
2	0.31	0.17	0.09		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages
2				0.011	0.000055	Sub-Total			
5					0.000215	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 17, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0434**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 17, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0434**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 17, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0434**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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February 17, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0434**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-212 / + 150 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0435**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Silicates
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Oxides, silicates, and graphite
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Not applicable
-20+150	Diamagnetic Non-mag (0.5 amp)	Not applicable

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 3

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Zakia Al-Haddad
Mineralogy Technician

Quality Control
Maria Mezei
Diamond Selection Specialist

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0435**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	1	0.009	0.000
	-150 / +100 µm	2	0.011	0.000
	TOTAL	3	0.020	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 3

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Zakia Al-Haddad
Mineralogy Technician

Quality Control
Maria Mezei
Diamond Selection Specialist

Note:
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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0435**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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March 22, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0435**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
1	0.29	0.20	0.14		0.000000	White	Transparent	95%	Octahedral, twinned, graphite inclusions
1				0.009	0.000045	**Sub-Total**			
	-150 / + 100 µm fraction								
1	0.23	0.20	0.08		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages, graphite inclusions
2	0.14	0.11	0.08		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, very minor cleavages
2				0.011	0.000055	**Sub-Total**			
3					0.000100	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 17, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0436**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

EBaeu

Selection and Description
Elena Valeyeva
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 17, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0436**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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February 17, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0436**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0436**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0437**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides, and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:
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Project: **8901-456**
Client: **Discover Abitibi**

Date: March 22, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0437**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:
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March 22, 2005

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0437**
Sample Weight: 24.00 kg

Project: **8901-456**

Client: **Discover Abitibi**

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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Fax: 705-652-3123

March 22, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0437**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 17, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0438**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides, silicates and rock fragments
+150	Ferromagnetic Mag	Oxides, silicates and rock fragments
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, silicates and rock fragments
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates and graphite

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia
Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: February 17, 2005
LIMS No. **MI0007-DEC04**
Sample No. **GGDA0438**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

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February 17, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0438**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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February 17, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0007-DEC04**
Sample No. **GGDA0438**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Lakefield Tuesday, April 05, 2005

Discover Abitibi
Attn : Gary Grabowski

C/O Ministry of Northern Development and Mines, 10 Government Road, Kirkland Lake
Ontario, P2N 3M6
Phone: (705) 568-4516, Fax:(705) 568-4515

Date Rec. : 01 December 2004
LR Report : **MI0008-DEC04**
Project : 8901-456
Client Ref : LR2403593

CERTIFICATE OF ANALYSIS

Sample ID	*Login Wt kg	*Dia #	*Dia (ct)	*Total pours
1: GGDA0439	25.75	0	0.000	4
2: GGDA0440	25.28	0	0.000	3
3: GGDA0441	25.68	23	0.001	5
4: GGDA0442	25.03	0	0.000	4
5: GGDA0443	25.36	0	0.000	3
6: GGDA0444	25.54	0	0.000	4
7: GGDA0445	25.70	0	0.000	4

Maria Mezei
Diamond Selection Specialist

Email: gary.grabowski@ndm.gov.on.ca

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0439**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Oxides and silicates
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Not applicable
-20+150	Diamagnetic Non-mag (0.5 amp)	Not applicable

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

EBaueg

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0439**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Zakia

Selection and Description
Zakia Al Haddad
Mineralogy Technician

Quality Control
Elena Valeyeva
Mineralogy Technician

Note:
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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0439**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0439**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0440**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Silicates
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Rock fragments, oxides, silicates, and graphite
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Not applicable
-20+150	Diamagnetic Non-mag (0.5 amp)	Not applicable

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

- Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Teresa Mailath
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:
SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0440**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Teresa Mailath
Selection and Description
Teresa Mailath
Mineralogy Technician

T.Gill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0440**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0440**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0441**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Oxides
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.001
Number of Diamonds: 23

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Teresa Mailath

Selection
Teresa Mailath
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0441**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	2	0.011	0.000
	-150 / +105 μm	21	0.102	0.001
	TOTAL	23	0.113	0.001

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.001
Number of Diamonds: 23

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Teresa Mailath

Selection
Teresa Mailath
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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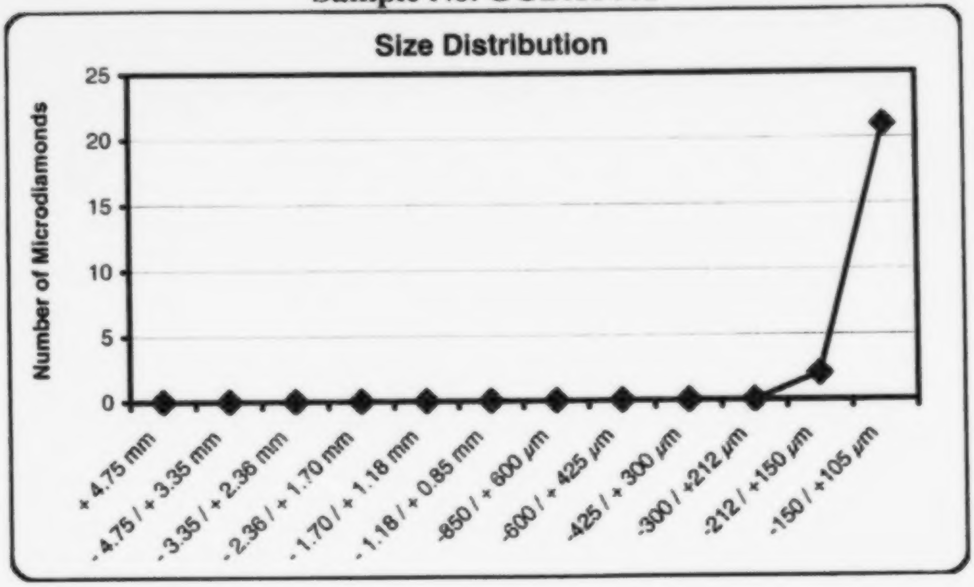
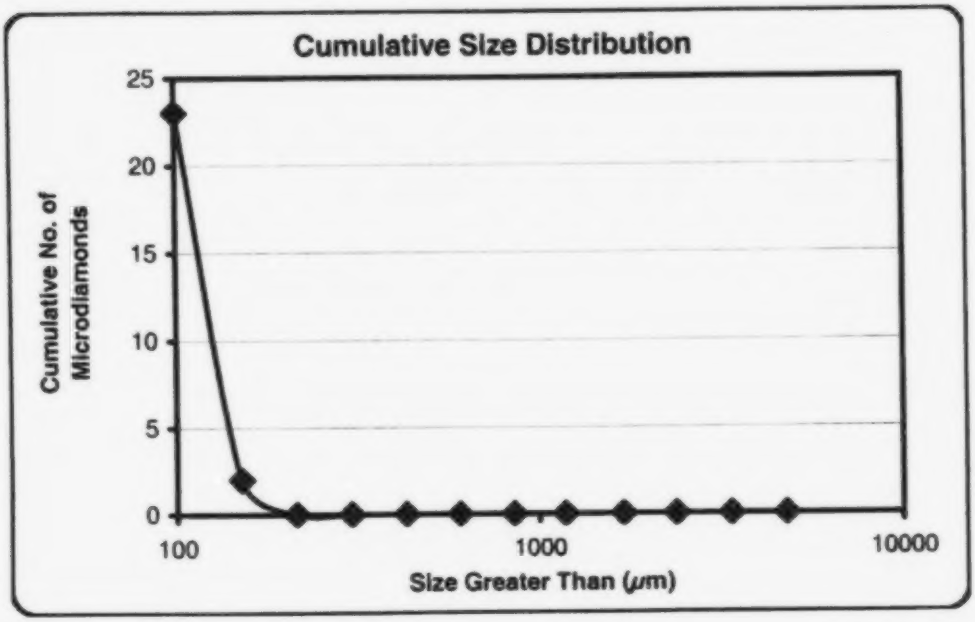
Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

Sample No. GGDA0441





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Phone: 705-652-2112
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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0441**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0441**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
1	0.40	0.20	0.17		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
2	0.23	0.20	0.13		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
2				0.011	0.000055	**Sub-Total**			
	-150 / + 105 μm fraction								
1	0.11	0.11	0.08		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
2	0.14	0.11	0.10		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
3	0.17	0.14	0.11		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
4	0.20	0.11	0.07		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
5	0.31	0.11	0.07		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
6	0.23	0.11	0.05		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
7	0.17	0.11	0.08		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
8	0.17	0.14	0.07		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0441**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
9	0.20	0.11	0.05		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
10	0.14	0.11	0.06		0.000000	White	Translucent	95%	Octahedral surface fragment
11	0.17	0.14	0.12		0.000000	White	Opaque	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
12	0.26	0.09	0.08		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
13	0.17	0.14	0.09		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
14	0.26	0.14	0.05		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
15	0.14	0.11	0.06		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
16	0.17	0.11	0.06		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
17	0.17	0.14	0.08		0.000000	White	Transparent	Note 1	Fragment on which crystal faces unrecognizable, mineral coating, minor cleavages
18	0.23	0.14	0.12		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
19	0.29	0.17	0.10		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, minor cleavages
20	0.23	0.14	0.11		0.000000	White	Translucent	Note 1	Fragment on which crystal faces unrecognizable, significant cleavages
21	0.11	0.11	0.08		0.000000	Off White	Transparent	1-55%	Tetrahexahedral surface fragment, minor cleavages
21				0.102	0.000510	Sub-Total			

23		0.000565	TOTAL

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0442**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Rock fragments
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0442**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 μm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 μm	0	0.000	0.000
	-425 / + 300 μm	0	0.000	0.000
	-300 / +212 μm	0	0.000	0.000
	-212 / +150 μm	0	0.000	0.000
	-150 / +105 μm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Elena Valeyeva
Mineralogy Technician

Quality Control
Andrei Filippov
Mineralogy Technologist

Note:

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April 5, 2005

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0442**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0442**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-600 / + 425 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-425 / + 300 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-300 / + 212 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-212 / + 150 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-150 / + 105 µm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

0		0.000000	TOTAL

Note Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0443**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Rock fragments
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Rock fragments and oxides
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Rock fragments, oxides, and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Rock fragments, oxides, and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Teresa Mailath
Selection and Description
Teresa Mailath
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0443**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Teresa Mailath

Selection and Description
Teresa Mailath
Mineralogy Technician

T Gill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0443**
Sample Weight: **24.00 kg**

No.	Stone Dimension, mm			Weight				Percent Preservation	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity		Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0443**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 µm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0444**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Rock fragments, oxides, and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Teresa Mailath

Selection and Description
Teresa Mailath
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0444**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description
Teresa Mailath
Mineralogy Technician

Quality Control
Tracy Gill
Mineralogy Technician

Note:
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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0444**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0444**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	-850 / + 600 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-600 / + 425 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-425 / + 300 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-300 / + 212 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-212 / + 150 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
	-150 / + 105 μm fraction								
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1 Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

SGS

SGS Lakefield Research Limited
185 Concession St., Box 4300
Lakefield, Ontario
K0L 2H0, CANADA

Tel: (705) 652-2112
Fax: (705) 652-3123

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0445**

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Not applicable
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Ferromagnetic Non-mag (Fus. Res.)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides, graphite, and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, graphite, and silicates

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Teresa Mailath
Selection and Description
Teresa Mailath
Mineralogy Technician

TGill
Quality Control
Tracy Gill
Mineralogy Technician

Note:
SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**
Client: **Discover Abitibi**

Date: April 5, 2005
LIMS No. **MI0008-DEC04**
Sample No. **GGDA0445**

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +105 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 24.00 kg
Number of Syndites: 0

Total Weight (carats)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Teresa Mailath

Selection and Description
Teresa Mailath
Mineralogy Technician

TGill

Quality Control
Tracy Gill
Mineralogy Technician

Note:

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Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

SGS LAKEFIELD RESEARCH LIMITED

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0445**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
	+ 4.75 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-4.75 / + 3.35 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-3.35 / + 2.36 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-2.36 / + 1.70 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.70 / + 1.18 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			
	-1.18 / + 0.85 mm fraction								
0					0.000000				
0				0.000	0.000000	Sub-Total			

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April 5, 2005

DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: **8901-456**

Client: **Discover Abitibi**

LIMS No. **MI0008-DEC04**
Sample No. **GGDA0445**
Sample Weight: 24.00 kg

No.	Stone Dimension, mm			Weight				Percent	Stone Description
	X	Y	Z	mg	Carats	Colour	Clarity	Preservation	Morphology
-850 / + 600 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-600 / + 425 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-425 / + 300 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-300 / + 212 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-212 / + 150 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
-150 / + 105 μm fraction									
0					0.000000				
0				0.000	0.000000	**Sub-Total**			
0					0.000000	**TOTAL**			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

APPENDIX B

EXPLANATION OF MICRODIAMOND EXTRACTION AND SELECTION PROCEDURE AND FLOWSHEET

DIAMOND EXTRACTION BY CAUSTIC DISSOLUTION

Introduction

Caustic dissolution of exploration samples efficiently produces a concentrate from which diamonds can readily be extracted during microscopic examination. The process takes advantage of diamond's property of high resistance to caustic soda (NaOH), eliminating diamond size reduction and loss that often occurs during extraction procedures that rely on crushing and attrition milling.

Procedure

The samples are processed according to the attached flowsheet. Very few minerals survive the harsh chemical attack, therefore weight reductions commonly exceed 99% of the initial sample weight.

As-received samples are divided into equally sized charges of less than 8 kg. Smaller charge sizes are necessary if the sample contains a high proportion of carbonate minerals, which are vigorously reactive with NaOH (the carbonate content is evaluated by an acid test prior to charge preparation). If a high proportion of the sample is composed of fragments larger than 8 cm, simple breakage, crushing or attrition milling may be required for an effective dissolution, or the length of the dissolution process may be increased. Client consultation and approval is necessary before any size reduction of the sample is initiated.

After digestion in molten caustic soda, the sample is poured onto a large-diameter 150 mesh (100 µm) screen. The + 150 mesh residue is liberated from the NaOH by washing the sample in a series of water and acid leach (HCl) baths. Once all of the NaOH is dissolved and removed, the concentrate is dried and screened on a 6 mesh screen to remove undigested material. The undigested material is examined microscopically by a mineralogist. If a significant amount of +6 mesh remains, or if the material consists of possible diamondiferous rock fragments, further digestion may be required. If the undigested material is of insignificant size or not considered as a possible source of diamonds, the -6 mesh residue is further processed by a two (possibly three if the residue is large) stage magnetic separation procedure utilising a permanent magnet and a Frantz Barrier Magnetic Separator.

The magnetically characterised residue is then submitted for microscopic examination and diamond selection. In addition to diamonds, the residue may contain partially undigested indicator minerals, colourless to opaque spinel, garnet, ilmenite, graphite, moissanite, zircon and kyanite. Each of the magnetic fractions is examined at a magnification of 40x using a binocular microscope. Grains of questionable mineralogy are examined using a scanning electron microscope equipped with an energy dispersive spectral (SEM-EDS) analyser. Although each magnetically characterised fraction is examined, particular emphasis is given to the diamagnetic portion.

The X, Y and Z dimensions of selected microdiamonds are measured in millimetres. Macrodiamonds are weighed individually while microdiamonds are weighed in groups of 20 or 30, with the milligram weight, in each case, converted to carats. The colour, clarity and morphology of each diamond are determined and all observations reported in a Certificate of Analysis. Synthetic diamonds released into a sample by diamond drill bits are selected and reported as "syndites" on the diamond description sheet.

Quality Control

Routine quality control tests are utilized to evaluate the efficiency of the caustic dissolution processing technique, by spiking client samples with two sizes (35 mesh and 80 mesh) of synthetic diamonds (easily identifiable, colour treated diamond fragments. Recovery of the diamond spikes typically ranges from 97 to 100%, and for 2002 was 98.2%. Further 2002 statistics showed that an average of 1.18 indicator mineral grains (73% of which were oxides, 27% silicates) were carried over into the caustic soda blanks run between different client's samples.

Each caustic dissolution residue is picked twice by separate diamond pickers. Questionable grains are examined by SEM-EDS for verification.

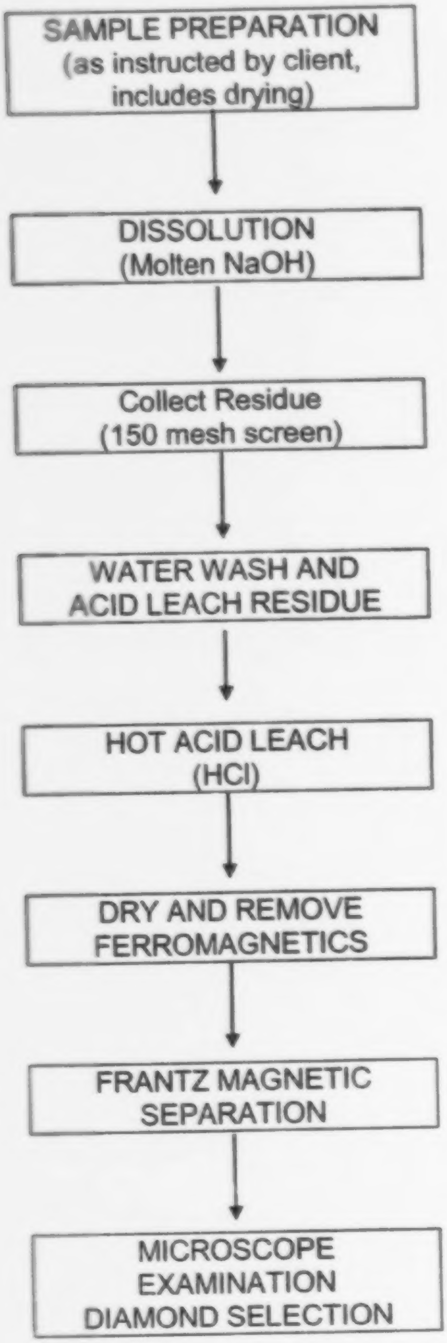
Every effort is made at each stage of sample handling during caustic dissolution, residue preparation and diamond picking to eliminate the possibility of contamination. These steps include:

- A rigorous sample tracking procedure.
- Dedicated screens and equipment for each sample during sample processing.
- Replacement of screens between each sample after pouring caustic soda.
- Thorough washing and scrubbing of all sample containers.
- Thorough cleaning of equipment used to prepare caustic residues between each processed sample.
- Sandblasting of each kiln pot between clients projects to ensure the removal of any microdiamonds or indicator minerals.

Customized flowsheets for sample processing utilising caustic dissolution and other sample preparation techniques (magnetic, gravity, flotation, acid leaching, etc.) can be developed, in consultation with the client, to meet specialised requirements.

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or valuation of any diamonds recovered unless otherwise instructed by the client.

Caustic Dissolution for Microdiamond Recovery


SAMPLE PREPARATION
(as instructed by client, includes drying)
DISSOLUTION
(Molten NaOH)
Collect Residue
(150 mesh screen)
WATER WASH AND ACID LEACH RESIDUE
HOT ACID LEACH
(HCl)
DRY AND REMOVE FERROMAGNETICS
FRANTZ MAGNETIC SEPARATION
MICROSCOPE EXAMINATION DIAMOND SELECTION

APPENDIX C

RESULTS OF GEOCHEMICAL ANALYSIS

SGS

CERTIFICATE OF ANALYSIS

Work Order: 081670

To:	**SGS Lakefield Research Limited** **Attn: Hugh De Souza** 185 Concession Street P.O. Box 4300 LAKEFIELD ONTARIO, K0L 2H0	**Date**	19/01/05

Copy 1 to

P.O. No.	
Project No.	Discover Abitibi
No. of Samples	45 Pulp
Date Submitted	21/12/04
Report Comprises	Cover Sheet plus Pages 1 to 12

Distribution of unused material:
Pulps: RETURN
Rejects: RETURN

Certified By

Tim Elliott, Operations Manager

ISO 9002 REGISTERED

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer:				
	L.N.R. = Listed not received		I.S. = Insufficient Sample	
	n.a. = Not applicable		-- = No result	
	*INF = Composition of this sample makes detection impossible by this method			

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Subject to SGS General Terms and Conditions

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	Al	Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method.	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.5	5	0.01	10	5	0.01	0.01	10	0.01	0.01	5	0.01	5	0.1	0.01
Units.	%	ppm	ppm	%	ppm	ppm	%	%	ppm	%	%	ppm	%	ppm	ppm	%
GGDA0401	6.30	1653.4	<5	5.33	500	71	6.20	2.77	68	5.59	0.12	134	0.24	24	993.7	0.40
GGDA0402	4.86	4062.0	<5	5.80	189	26	5.80	3.09	71	4.98	0.12	89	0.55	21	934.3	0.36
GGDA0403	6.91	782.5	<5	5.33	525	40	6.40	1.96	47	5.46	0.13	159	0.13	22	699.4	0.55
GGDA0404	5.58	2007.7	<5	5.63	559	79	5.85	2.53	86	5.99	0.12	128	0.22	25	1038.2	0.38
GGDA0405	5.68	948.3	<5	6.62	312	84	7.21	3.14	59	5.92	0.14	254	0.23	26	669.5	0.54
GGDA0406	5.30	608.3	<5	6.78	536	93	7.31	1.65	43	6.06	0.13	130	0.15	28	565.1	0.67
GGDA0407	4.87	200.7	<5	3.56	1430	<5	6.32	0.78	148	11.84	0.14	764	0.10	21	65.4	0.28
GGDA0408	6.30	224.4	<5	3.13	615	89	5.64	0.51	49	5.47	0.12	178	0.17	19	230.4	0.34
GGDA0409	5.43	615.9	<5	6.40	625	13	7.14	1.40	26	6.27	0.14	161	0.20	27	271.1	0.42
GGDA0410	5.59	555.4	<5	7.21	546	41	8.24	1.53	22	6.56	0.16	161	0.40	31	510.0	0.59
GGDA0411	6.14	3296.3	<5	5.02	411	40	4.89	2.45	42	4.64	0.09	165	0.16	16	589.1	0.39
GGDA0412	5.56	494.7	<5	5.01	807	45	5.98	1.61	32	6.27	0.11	230	0.10	26	496.5	0.31
GGDA0413	5.65	681.7	<5	5.36	429	94	5.82	1.04	44	5.46	0.13	157	0.35	23	307.6	0.45
GGDA0414	2.28	1234.5	<5	8.76	861	89	7.89	1.81	27	12.54	0.15	668	0.28	20	881.3	1.46
GGDA0415	3.51	448.4	<5	5.15	813	195	8.49	1.09	26	8.86	0.13	793	0.06	16	456.1	0.54
GGDA0416	6.16	1019.1	<5	7.17	265	95	6.58	2.79	59	4.56	0.13	66	0.36	26	937.4	0.49
GGDA0417	3.75	602.2	<5	8.10	373	<5	4.71	2.41	32	7.82	0.09	184	1.31	22	1115.1	0.38
GGDA0418	6.00	408.6	<5	5.36	555	66	5.42	1.05	35	5.50	0.11	202	0.20	19	364.8	0.38
GGDA0419	4.99	467.1	<5	6.31	823	41	6.68	1.94	39	6.77	0.14	278	0.14	24	540.6	0.44
GGDA0420	6.38	1782.2	<5	4.69	421	21	5.38	2.53	26	4.31	0.09	108	0.14	19	1065.1	0.38
GGDA0421	5.90	2230.1	<5	6.66	501	186	7.16	2.54	49	6.19	0.14	157	0.28	32	1172.8	0.49
GGDA0422	6.76	466.8	<5	3.87	559	66	4.93	2.06	78	4.61	0.10	161	0.10	17	545.0	0.35
GGDA0423	6.42	1143.5	<5	4.77	242	48	5.95	3.25	19	3.80	0.12	56	0.24	21	897.9	0.43
GGDA0424	5.96	1250.0	<5	4.65	408	53	6.14	3.20	40	4.72	0.12	68	0.27	23	784.4	0.44
GGDA0425	5.49	2160.3	<5	5.86	441	56	6.37	3.33	69	6.05	0.13	120	0.37	23	1299.8	0.41
GGDA0426	6.74	3056.6	<5	4.61	57	39	5.13	3.60	45	2.93	0.10	64	0.79	15	2026.2	0.51
GGDA0427	6.01	2849.8	<5	4.74	211	86	4.79	2.68	46	3.71	0.10	73	0.32	17	1442.9	0.38
GGDA0428	5.85	1597.4	<5	5.68	393	97	6.18	3.44	93	5.76	0.12	264	0.22	17	1104.7	0.42
GGDA0429	8.93	218.8	<5	5.03	377	49	7.15	0.13	33	6.48	0.13	167	0.32	25	2682.0	0.52
GGDA0430	4.89	594.8	<5	9.30	227	204	3.91	2.39	35	3.74	0.15	176	0.49	12	253.5	0.44

SGS

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	Al	Ba	Be	Ca	Cr	Cu	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method.	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.5	5	0.01	10	5	0.01	0.01	10	0.01	0.01	5	0.01	5	0.1	0.01
Units.	%	ppm	ppm	%	ppm	ppm	%	%	ppm	%	%	ppm	%	ppm	ppm	%
GGDA0431	5.63	1628.9	<5	4.80	573	39	4.92	3.83	32	6.03	0.10	226	0.13	17	610.7	0.32
GGDA0432	7.14	678.4	<5	5.72	212	123	6.18	2.49	27	4.26	0.10	64	0.17	26	485.7	0.47
GGDA0433	7.08	511.4	<5	5.40	288	72	6.12	2.17	25	4.46	0.09	60	0.17	24	358.2	0.45
GGDA0434	4.78	1489.1	<5	6.33	779	9	6.24	4.16	36	7.95	0.11	243	0.35	27	394.2	0.43
GGDA0435	5.22	1482.6	<5	5.20	679	39	5.68	2.75	56	6.72	0.10	226	0.29	20	825.6	0.40
GGDA0436	5.81	1631.8	<5	5.92	509	62	5.74	1.47	12	5.84	0.11	121	0.23	21	377.0	0.45
GGDA0437	4.48	695.9	<5	5.63	1740	14	6.67	2.68	59	11.02	0.13	668	0.14	24	154.4	0.35
GGDA0438	4.80	32.0	<5	6.88	2290	<5	7.07	0.15	56	11.39	0.27	828	0.19	27	62.0	0.35
GGDA0439	5.70	1229.7	<5	5.97	619	35	6.23	1.68	19	6.56	0.13	131	0.21	27	413.0	0.46
GGDA0440	1.83	924.4	<5	10.92	458	165	7.34	1.55	29	9.23	0.21	294	0.47	17	1768.2	0.85
GGDA0441	5.90	48.0	<5	2.94	1000	1030	6.93	0.27	174	6.48	0.11	316	0.22	27	57.9	0.43
GGDA0442	5.28	71.4	<5	3.45	860	42	6.82	0.19	125	6.90	0.12	207	0.20	23	126.2	0.40
GGDA0443	5.69	1465.4	<5	5.08	294	67	5.38	2.08	66	5.79	0.11	273	0.12	13	1647.2	0.38
GGDA0444	6.04	892.2	<5	5.68	797	107	5.88	1.70	40	6.77	0.10	179	0.24	25	621.7	0.49
GGDA0445	5.40	1481.5	<5	5.67	541	253	6.21	3.14	39	5.50	0.11	175	0.31	21	817.2	0.40
*Dup GGDA0401	6.14	1587.6	<5	5.15	478	72	6.03	2.74	67	5.50	0.12	136	0.23	23	966.0	0.40
*Blk BLANK	<0.01	<0.5	<5	<0.01	<10	<5	<0.01	<0.01	<10	<0.01	<0.01	<5	<0.01	<5	<0.1	<0.01
*Std SO3	2.93	264.3	<5	14.46	22	17	1.47	1.17	11	5.08	0.05	16	0.05	<5	223.9	0.19
*Dup GGDA0413	5.71	667.9	<5	5.26	422	96	5.88	1.07	44	5.54	0.13	165	0.34	24	305.4	0.45
*Dup GGDA0425	5.32	2127.7	<5	5.62	419	57	6.21	3.31	68	5.87	0.12	120	0.36	23	1238.8	0.40
*Dup GGDA0437	4.39	691.8	<5	5.40	1710	14	6.60	2.64	59	10.74	0.12	654	0.14	23	148.0	0.35
*Blk BLANK	<0.01	<0.5	<5	<0.01	<10	<5	<0.01	<0.01	<10	<0.01	<0.01	<5	<0.01	<5	<0.1	<0.01
*Std SO3	3.04	273.7	<5	14.96	25	17	1.52	1.17	11	5.25	0.05	16	0.05	5	232.1	0.20

SGS

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	V	Zn	Zr
Method.	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	0.5
Units.	ppm	ppm	ppm
GGDA0401	167	109	119.9
GGDA0402	118	133	254.3
GGDA0403	148	157	177.3
GGDA0404	161	118	120.5
GGDA0405	190	127	102.9
GGDA0406	224	92	110.9
GGDA0407	134	119	58.9
GGDA0408	138	311	142.4
GGDA0409	181	112	106.0
GGDA0410	208	123	158.6
GGDA0411	116	78	124.1
GGDA0412	166	69	63.3
GGDA0413	153	117	187.2
GGDA0414	204	74	237.4
GGDA0415	131	87	90.6
GGDA0416	191	133	199.4
GGDA0417	63	89	183.7
GGDA0418	151	78	161.5
GGDA0419	189	137	88.9
GGDA0420	150	68	123.4
GGDA0421	207	147	119.2
GGDA0422	137	130	117.6
GGDA0423	166	105	133.9
GGDA0424	176	152	124.2
GGDA0425	151	107	234.5
GGDA0426	117	186	315.8
GGDA0427	125	90	149.0
GGDA0428	173	107	137.1
GGDA0429	207	95	242.0
GGDA0430	168	138	206.2

SGS

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	V	Zn	Zr
Method.	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	0.5
Units.	ppm	ppm	ppm
GGDA0431	123	62	92.0
GGDA0432	181	89	102.4
GGDA0433	177	98	123.3
GGDA0434	157	81	98.5
GGDA0435	137	85	131.0
GGDA0436	162	89	131.2
GGDA0437	149	71	65.5
GGDA0438	154	339	77.3
GGDA0439	182	105	133.1
GGDA0440	137	46	140.1
GGDA0441	181	4320	90.4
GGDA0442	154	481	92.7
GGDA0443	149	87	120.2
GGDA0444	164	154	136.3
GGDA0445	150	84	137.0
*Dup GGDA0401	161	106	112.8
*Blk BLANK	<5	<5	<0.5
*Std SO3	31	45	157.2
*Dup GGDA0413	158	112	190.9
*Dup GGDA0425	147	105	231.1
*Dup GGDA0437	146	68	62.7
*Blk BLANK	<5	<5	<0.5
*Std SO3	34	47	149.4

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Element. Method. Det.Lim. Units.	Ag ICM90A 1 ppm	As ICM90A 30 ppm	Bi ICM90A 0.1 ppm	Cd ICM90A 0.2 ppm	Ce ICM90A 0.1 ppm	Co ICM90A 0.5 ppm	Cs ICM90A 0.1 ppm	Dy ICM90A 0.05 ppm	Er ICM90A 0.05 ppm	Eu ICM90A 0.05 ppm	Ga ICM90A 1 ppm	Gd ICM90A 0.05 ppm	Ge ICM90A 1 ppm	Hf ICM90A 1 ppm	Ho ICM90A 0.05 ppm	In ICM90A 0.2 ppm
GGDA0401	<1	<30	0.1	<0.2	109.6	38.4	3.8	3.63	2.03	2.28	14	7.10	1	3	0.69	<0.2
GGDA0402	<1	<30	0.7	<0.2	241.6	32.2	4.0	7.84	3.19	4.90	14	16.2	1	7	1.27	<0.2
GGDA0403	<1	<30	<0.1	<0.2	61.7	38.1	3.5	3.79	2.05	1.69	20	5.81	2	5	0.69	<0.2
GGDA0404	<1	<30	<0.1	<0.2	90.6	38.9	8.4	3.81	1.98	2.06	13	6.99	1	3	0.68	<0.2
GGDA0405	<1	<30	0.1	<0.2	97.1	44.5	5.7	4.56	2.67	2.21	16	6.93	1	3	0.85	<0.2
GGDA0406	<1	<30	0.1	<0.2	58.8	46.3	2.0	4.58	2.55	1.89	15	6.77	2	4	0.87	<0.2
GGDA0407	<1	31	<0.1	<0.2	25.6	67.8	3.4	2.03	1.28	0.62	12	2.60	2	2	0.40	<0.2
GGDA0408	<1	31	0.5	0.7	59.7	39.1	1.7	3.54	2.15	1.79	14	5.02	2	4	0.67	<0.2
GGDA0409	<1	<30	1.8	<0.2	91.2	42.9	3.8	3.58	1.99	1.88	13	6.36	2	3	0.71	<0.2
GGDA0410	<1	<30	<0.1	<0.2	140.5	45.8	3.8	6.32	3.17	3.49	14	11.4	2	4	1.14	<0.2
GGDA0411	<1	<30	0.1	<0.2	119.6	32.7	7.9	2.98	1.52	1.87	15	5.98	1	4	0.52	<0.2
GGDA0412	<1	<30	<0.1	<0.2	36.9	45.8	9.6	2.64	1.64	1.01	12	3.16	1	2	0.54	<0.2
GGDA0413	<1	<30	0.7	<0.2	160.5	36.5	2.8	5.49	2.47	3.46	15	11.1	1	5	0.93	<0.2
GGDA0414	2	<30	<0.1	<0.2	148.9	76.3	5.1	4.16	1.56	2.94	10	8.40	1	7	0.64	<0.2
GGDA0415	<1	<30	<0.1	<0.2	53.9	77.3	1.9	2.70	1.44	1.16	10	3.99	1	2	0.49	<0.2
GGDA0416	<1	<30	0.2	<0.2	158.3	34.5	8.3	7.06	3.16	4.08	14	13.2	1	5	1.23	<0.2
GGDA0417	<1	<30	0.1	<0.2	302.3	44.6	6.0	10.8	3.55	7.82	12	26.5	2	5	1.58	<0.2
GGDA0418	<1	<30	0.2	<0.2	132.5	36.9	3.0	3.61	1.75	2.37	16	7.60	1	4	0.63	<0.2
GGDA0419	<1	<30	<0.1	<0.2	102.2	47.9	3.5	3.48	2.01	1.74	14	5.87	1	3	0.69	<0.2
GGDA0420	<1	<30	<0.1	<0.2	84.5	31.2	1.6	3.46	1.91	1.69	14	5.48	1	4	0.61	<0.2
GGDA0421	<1	<30	<0.1	<0.2	96.5	48.5	5.2	4.28	2.33	2.33	15	7.79	1	3	0.76	<0.2
GGDA0422	<1	<30	<0.1	<0.2	63.6	31.8	3.6	2.42	1.24	1.37	17	4.35	1	3	0.43	<0.2
GGDA0423	<1	<30	0.2	<0.2	81.5	31.2	2.5	4.15	2.23	2.01	15	6.56	1	4	0.76	<0.2
GGDA0424	<1	<30	0.2	<0.2	79.1	34.3	3.5	3.95	2.19	2.09	15	6.80	1	4	0.75	<0.2
GGDA0425	<1	<30	0.1	<0.2	173.0	43.9	4.8	7.64	3.26	4.32	15	15.0	2	6	1.24	<0.2
GGDA0426	<1	<30	0.1	<0.2	342.1	22.9	3.0	7.69	3.17	5.81	19	18.5	1	8	1.26	<0.2
GGDA0427	<1	<30	0.2	<0.2	153.6	27.2	1.9	4.72	2.17	2.99	16	9.47	1	4	0.80	<0.2
GGDA0428	<1	<30	0.2	<0.2	139.2	40.5	7.1	4.16	2.13	2.46	15	7.69	1	4	0.72	<0.2
GGDA0429	<1	<30	<0.1	<0.2	237.7	42.7	1.1	6.77	3.28	4.28	20	13.4	1	6	1.19	<0.2
GGDA0430	28	<30	0.4	0.4	561.9	26.0	0.8	9.11	3.64	7.87	17	25.3	1	5	1.38	<0.2

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Element.	Ag	As	Bi	Cd	Ce	Co	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	In
Method.	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	1	30	0.1	0.2	0.1	0.5	0.1	0.05	0.05	0.05	1	0.05	1	1	0.05	0.2
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GGDA0431	<1	<30	<0.1	<0.2	57.3	34.3	7.4	1.73	0.87	0.99	12	3.34	<1	3	0.29	<0.2
GGDA0432	<1	<30	0.1	<0.2	57.9	31.8	2.3	3.24	1.71	1.46	14	5.24	1	3	0.62	<0.2
GGDA0433	<1	<30	0.2	<0.2	64.3	33.7	3.5	3.34	1.92	1.45	15	5.14	<1	3	0.60	<0.2
GGDA0434	<1	<30	<0.1	<0.2	97.9	48.6	6.8	3.90	1.76	2.43	11	8.10	1	3	0.65	<0.2
GGDA0435	<1	<30	0.3	<0.2	129.0	43.4	5.3	4.01	1.85	2.76	15	8.45	1	4	0.68	<0.2
GGDA0436	<1	<30	<0.1	<0.2	97.3	41.2	0.3	3.60	1.68	2.13	15	6.91	2	4	0.62	<0.2
GGDA0437	<1	<30	<0.1	<0.2	27.5	62.2	7.8	2.40	1.39	0.87	10	2.87	1	2	0.47	<0.2
GGDA0438	<1	40	0.8	<0.2	32.5	60.1	3.0	3.52	2.00	1.08	14	4.24	3	2	0.70	<0.2
GGDA0439	<1	<30	0.1	<0.2	101.3	42.1	4.4	4.06	2.08	2.24	14	7.06	2	4	0.75	<0.2
GGDA0440	2	<30	0.3	<0.2	208.8	70.9	3.7	7.93	4.16	3.49	7	11.3	<1	3	1.49	<0.2
GGDA0441	5	328	0.4	15.1	57.0	102.8	2.2	4.16	2.08	1.42	15	6.29	3	3	0.74	<0.2
GGDA0442	<1	50	0.1	1.5	54.8	58.2	2.1	3.00	1.72	1.47	13	4.66	2	3	0.59	<0.2
GGDA0443	<1	<30	0.2	<0.2	97.8	34.0	6.5	3.63	2.15	1.91	14	6.08	1	3	0.67	<0.2
GGDA0444	<1	<30	<0.1	0.2	99.1	42.7	3.0	3.88	1.86	2.24	15	7.12	1	4	0.65	<0.2
GGDA0445	<1	<30	<0.1	<0.2	105.8	39.4	6.5	4.71	2.35	2.40	12	7.74	<1	4	0.84	<0.2
*Dup GGDA0401	<1	<30	0.1	<0.2	107.2	39.4	3.5	3.88	1.99	2.27	14	7.02	1	3	0.69	<0.2
*Blk BLANK	<1	<30	<0.1	<0.2	<0.1	<0.5	<0.1	<0.05	<0.05	<0.05	<1	<0.05	<1	<1	<0.05	<0.2
*Std SO3	<1	<30	<0.1	<0.2	34.4	5.4	1.0	2.68	1.74	0.72	7	3.02	<1	4	0.60	<0.2
*Dup GGDA0413	<1	<30	0.9	<0.2	154.8	38.2	2.7	5.38	2.40	3.40	15	10.8	1	5	0.87	<0.2
*Dup GGDA0425	<1	<30	0.2	<0.2	172.2	43.9	5.2	7.45	3.02	4.34	16	15.3	1	6	1.20	<0.2
*Dup GGDA0437	<1	<30	<0.1	<0.2	25.9	62.3	7.9	2.15	1.34	0.80	10	2.98	1	2	0.46	<0.2
*Blk BLANK	<1	<30	<0.1	<0.2	<0.1	<0.5	<0.1	<0.05	<0.05	<0.05	<1	<0.05	<1	<1	<0.05	<0.2
*Std SO3	<1	<30	<0.1	<0.2	35.6	5.3	1.1	2.88	1.78	0.73	7	3.31	<1	4	0.57	<0.2

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Element.	La	Lu	Mo	Nb	Nd	Pb	Pr	Rb	Sm	Sn	Ta	Tb	Th	Tl	Tm	U
Method.	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	1	0.5	0.05	0.1	0.5	0.05	0.05
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GGDA0401	54.5	0.29	<2	4	55.1	13	13.1	132.1	8.9	1	<0.5	0.83	6.1	0.6	0.27	1.59
GGDA0402	118.4	0.34	<2	11	122.1	6	28.0	91.4	20.0	2	<0.5	1.88	13.2	0.8	0.37	3.58
GGDA0403	28.9	0.27	<2	6	35.2	13	7.45	99.7	6.8	1	<0.5	0.76	6.3	<0.5	0.25	1.33
GGDA0404	44.2	0.26	<2	5	46.3	25	10.4	165.5	8.1	1	<0.5	0.84	6.2	0.8	0.26	1.79
GGDA0405	43.5	0.34	<2	10	52.2	11	11.8	115.5	8.7	1	<0.5	0.93	4.2	0.7	0.32	1.02
GGDA0406	25.5	0.30	<2	5	35.8	7	7.52	50.9	7.5	1	<0.5	0.90	2.9	<0.5	0.31	0.99
GGDA0407	11.8	0.21	<2	2	14.5	20	3.18	43.3	2.9	<1	<0.5	0.38	1.7	<0.5	0.17	0.50
GGDA0408	27.2	0.30	4	5	31.6	28	7.16	20.9	5.7	1	<0.5	0.65	4.9	<0.5	0.28	1.43
GGDA0409	43.3	0.26	<2	5	46.9	<5	10.7	69.3	7.8	<1	<0.5	0.83	5.4	0.5	0.25	1.46
GGDA0410	63.2	0.36	<2	6	78.1	8	17.3	69.8	14.4	1	<0.5	1.42	7.8	0.7	0.36	2.10
GGDA0411	63.4	0.18	<2	5	53.0	19	12.9	92.1	7.9	<1	<0.5	0.67	12.0	0.7	0.20	2.45
GGDA0412	16.8	0.25	<2	3	20.3	8	4.51	91.4	3.5	<1	<0.5	0.46	2.4	0.6	0.24	0.73
GGDA0413	75.8	0.27	<2	7	83.3	5	19.1	23.4	14.1	1	<0.5	1.32	10.0	<0.5	0.30	2.46
GGDA0414	77.5	0.13	6	118	69.0	8	16.5	86.1	10.7	2	7.8	1.03	9.9	<0.5	0.16	2.16
GGDA0415	26.3	0.18	<2	10	25.8	6	6.11	37.1	4.4	<1	0.8	0.53	4.3	<0.5	0.18	0.99
GGDA0416	72.3	0.35	<2	9	89.4	15	19.6	164.8	16.0	1	<0.5	1.56	7.4	0.8	0.37	2.02
GGDA0417	133.4	0.30	<2	2	183.8	18	38.4	165.6	32.5	1	<0.5	2.88	3.6	1.0	0.33	0.62
GGDA0418	65.1	0.21	<2	5	64.4	17	15.2	43.0	10.5	1	<0.5	0.89	9.2	<0.5	0.21	2.17
GGDA0419	42.0	0.23	<2	7	49.3	8	11.7	94.3	7.5	<1	<0.5	0.74	4.7	<0.5	0.26	1.11
GGDA0420	42.7	0.28	<2	6	40.6	10	9.67	71.4	6.9	<1	<0.5	0.71	6.8	<0.5	0.25	2.04
GGDA0421	45.3	0.29	<2	5	52.2	11	11.5	106.2	9.6	1	<0.5	0.92	5.8	0.7	0.27	1.59
GGDA0422	31.1	0.17	<2	4	30.9	10	7.21	80.1	5.4	<1	<0.5	0.54	6.4	<0.5	0.15	1.23
GGDA0423	36.4	0.30	2	5	43.7	17	9.71	120.1	7.8	1	<0.5	0.87	6.0	0.5	0.30	2.12
GGDA0424	36.1	0.27	<2	5	43.4	13	9.62	137.2	8.3	2	<0.5	0.83	6.0	0.7	0.27	2.19
GGDA0425	76.9	0.34	<2	7	95.6	24	21.1	148.7	18.5	2	<0.5	1.77	10.4	0.9	0.37	3.44
GGDA0426	167.3	0.35	<2	10	162.0	26	38.9	101.6	25.0	2	0.6	2.01	15.2	0.8	0.36	1.58
GGDA0427	72.6	0.24	<2	7	77.0	21	17.9	75.3	12.5	1	<0.5	1.12	10.5	0.6	0.28	2.17
GGDA0428	66.3	0.30	<2	10	68.2	52	16.2	138.5	10.7	<1	<0.5	0.92	8.3	1.0	0.27	1.88
GGDA0429	117.5	0.39	<2	10	112.9	21	27.0	5.9	17.3	1	<0.5	1.56	16.2	<0.5	0.40	3.56
GGDA0430	273.7	0.37	<2	9	268.8	88	64.5	77.3	37.5	1	0.5	2.61	28.0	<0.5	0.38	4.76

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Element.	La	Lu	Mo	Nb	Nd	Pb	Pr	Rb	Sm	Sn	Ta	Tb	Th	Tl	Tm	U
Method.	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.1	0.05	2	1	0.1	5	0.05	0.2	0.1	1	0.5	0.05	0.1	0.5	0.05	0.05
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
GGDA0431	22.0	0.14	<2	3	27.8	6	5.74	188.3	4.0	<1	<0.5	0.40	4.3	1.2	0.12	0.44
GGDA0432	26.3	0.24	<2	4	31.9	13	6.92	81.6	5.7	<1	<0.5	0.66	3.1	0.5	0.22	0.92
GGDA0433	26.8	0.25	<2	4	34.4	9	7.13	87.8	5.9	<1	<0.5	0.66	3.2	0.6	0.24	1.03
GGDA0434	42.6	0.19	<2	4	56.6	<5	12.2	204.4	10.1	<1	<0.5	0.92	4.3	1.0	0.21	1.03
GGDA0435	59.6	0.21	<2	4	65.9	16	15.0	124.7	11.4	1	<0.5	0.94	8.2	0.6	0.21	2.47
GGDA0436	44.3	0.19	<2	5	49.5	<5	11.2	25.2	8.7	<1	<0.5	0.83	5.6	<0.5	0.20	1.42
GGDA0437	11.9	0.21	<2	3	15.7	<5	3.39	114.2	3.0	<1	<0.5	0.42	1.5	0.7	0.18	0.73
GGDA0438	18.7	0.29	<2	3	20.3	306	4.39	7.9	4.2	1	<0.5	0.61	2.3	<0.5	0.27	6.09
GGDA0439	47.8	0.28	<2	5	52.4	12	11.8	80.2	8.9	1	<0.5	0.87	6.6	0.6	0.26	1.82
GGDA0440	117.2	0.34	<2	104	79.7	22	20.9	84.6	12.3	1	4.9	1.54	13.7	<0.5	0.47	3.10
GGDA0441	27.5	0.26	<2	4	30.5	3400	6.71	8.0	6.4	1	<0.5	0.84	4.0	<0.5	0.27	1.19
GGDA0442	25.2	0.20	<2	4	29.4	167	6.43	10.5	5.5	1	<0.5	0.60	3.3	<0.5	0.23	0.89
GGDA0443	46.8	0.26	<2	12	47.7	20	11.3	95.4	7.4	<1	<0.5	0.79	4.9	1.3	0.26	1.32
GGDA0444	45.5	0.23	<2	6	52.1	77	11.9	64.4	9.2	1	<0.5	0.83	6.4	0.5	0.23	1.60
GGDA0445	48.0	0.30	<2	8	55.7	14	12.7	159.9	9.5	1	0.5	0.97	6.3	1.1	0.29	2.05
*Dup GGDA0401	52.0	0.24	<2	5	54.7	13	12.7	129.3	9.4	1	<0.5	0.86	5.8	0.6	0.26	1.50
*Blk BLANK	<0.1	<0.05	<2	<1	<0.1	<5	<0.05	<0.2	<0.1	<1	<0.5	<0.05	<0.1	<0.5	<0.05	<0.05
*Std SO3	16.4	0.24	<2	6	16.7	12	4.09	36.6	3.1	<1	<0.5	0.48	3.2	<0.5	0.26	0.99
*Dup GGDA0413	71.8	0.26	<2	7	79.2	5	18.1	23.3	13.6	1	<0.5	1.26	9.7	<0.5	0.30	2.43
*Dup GGDA0425	76.7	0.35	<2	7	96.3	25	21.0	149.5	18.1	2	<0.5	1.76	10.5	0.9	0.37	3.33
*Dup GGDA0437	10.9	0.18	<2	3	15.0	<5	3.27	114.1	3.1	<1	<0.5	0.41	1.5	0.8	0.17	0.74
*Blk BLANK	<0.1	<0.05	<2	<1	<0.1	<5	<0.05	<0.2	<0.1	<1	<0.5	<0.05	<0.1	<0.5	<0.05	<0.05
*Std SO3	17.0	0.25	<2	6	17.9	13	4.11	36.3	3.4	<1	<0.5	0.49	3.5	<0.5	0.24	1.06

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Element.	W	Y	Yb
Method.	ICM90A	ICM90A	ICM90A
Det.Lim.	1	0.5	0.1
Units.	ppm	ppm	ppm
GGDA0401	<1	18.2	1.6
GGDA0402	<1	32.6	2.1
GGDA0403	<1	17.9	1.6
GGDA0404	<1	18.3	1.7
GGDA0405	<1	22.0	2.1
GGDA0406	<1	22.5	2.0
GGDA0407	<1	10.0	1.1
GGDA0408	1	18.0	1.9
GGDA0409	2	18.1	1.7
GGDA0410	<1	28.8	2.3
GGDA0411	<1	13.9	1.3
GGDA0412	<1	13.5	1.4
GGDA0413	<1	24.6	1.9
GGDA0414	2	15.5	0.9
GGDA0415	<1	12.4	1.1
GGDA0416	<1	30.4	2.3
GGDA0417	1	41.9	2.0
GGDA0418	1	17.2	1.3
GGDA0419	<1	17.4	1.6
GGDA0420	1	16.9	1.6
GGDA0421	<1	20.2	1.9
GGDA0422	<1	12.0	0.9
GGDA0423	1	20.7	2.0
GGDA0424	<1	19.2	1.8
GGDA0425	1	32.8	2.3
GGDA0426	<1	34.0	2.3
GGDA0427	<1	21.8	1.7
GGDA0428	<1	19.1	1.6
GGDA0429	<1	31.2	2.5
GGDA0430	34	37.9	2.5

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	W	Y	Yb
Method.	ICM90A	ICM90A	ICM90A
Det.Lim.	1	0.5	0.1
Units.	ppm	ppm	ppm
GGDA0431	<1	7.6	0.9
GGDA0432	<1	15.9	1.5
GGDA0433	<1	16.1	1.6
GGDA0434	<1	17.1	1.3
GGDA0435	<1	17.8	1.3
GGDA0436	<1	16.3	1.3
GGDA0437	<1	12.3	1.2
GGDA0438	<1	21.4	1.7
GGDA0439	1	19.6	1.9
GGDA0440	6	36.0	2.7
GGDA0441	1	19.9	1.6
GGDA0442	<1	14.9	1.4
GGDA0443	<1	18.0	1.7
GGDA0444	<1	17.7	1.5
GGDA0445	<1	22.5	1.8
*Dup GGDA0401	<1	18.3	1.8
*Blk BLANK	<1	<0.5	<0.1
*Std SO3	<1	15.3	1.5
*Dup GGDA0413	<1	24.8	1.9
*Dup GGDA0425	1	32.0	2.3
*Dup GGDA0437	<1	12.2	1.2
*Blk BLANK	<1	<0.5	<0.1
*Std SO3	<1	16.3	1.6

SGS

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	Si
Method.	ICP95A
Det.Lim.	0.01
Units.	%
GGDA0401	24.99
GGDA0402	24.13
GGDA0403	25.07
GGDA0404	22.69
GGDA0405	22.64
GGDA0406	23.32
GGDA0407	21.54
GGDA0408	26.42
GGDA0409	22.26
GGDA0410	22.06
GGDA0411	24.18
GGDA0412	21.05
GGDA0413	19.42
GGDA0414	13.77
GGDA0415	20.68
GGDA0416	21.71
GGDA0417	20.64
GGDA0418	22.79
GGDA0419	22.75
GGDA0420	24.90
GGDA0421	22.05
GGDA0422	24.20
GGDA0423	24.21
GGDA0424	23.01
GGDA0425	23.21
GGDA0426	24.07
GGDA0427	24.82
GGDA0428	22.17
GGDA0429	20.36
GGDA0430	20.97

SGS

Work Order: 081670 **Date:** 19/01/05 **FINAL**

Element.	**Si**
Method.	**ICP95A**
Det.Lim.	**0.01**
Units.	**%**
GGDA0431	22.92
GGDA0432	20.28
GGDA0433	21.24
GGDA0434	19.98
GGDA0435	24.00
GGDA0436	21.03
GGDA0437	21.48
GGDA0438	19.62
GGDA0439	21.63
GGDA0440	10.43
GGDA0441	22.81
GGDA0442	22.97
GGDA0443	22.70
GGDA0444	22.39
GGDA0445	21.20
*Dup GGDA0401	24.49
*Blk BLANK	<0.01
*Std SO3	16.05
*Dup GGDA0413	20.61
*Dup GGDA0425	22.83
*Dup GGDA0437	21.40
*Blk BLANK	<0.01
*Std NIST8606	21.57

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
LENGTH					
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
AREA					
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
VOLUME					
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
CAPACITY					
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
MASS					
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

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